





SEKISUI CHEMICAL CO., LTD.

High Performance Plastics Company Building & Infrastructure Materials Business Strategy Office



A new frontier, a new lifestyle.

Sekisui Chemical Group will continue to develop the frontiers of "Creation of housing/Social infrastructure" and "Chemical solutions", utilizing its prominent technology and quality, thereby contributing to the enhancement of the lives of people around the world and the global environment.

Company Name:Sekisui Chemical Co., Ltd.Established:March 03, 1947C a p i t a l :100,002 million yenPresident &
Representative
D i r e c t o r :Teiji KogeE m ployees:26,080(as of March 2018)N e t Sales:1,107,429 million yen(as of March 2018)Operating Income:99,231 million yen(as of March 2018)Ordinary Income:93,929 million yen(as of March 2018)Net Income for the Period:63,459 million yen(as of March 2018)

A d d r e s s : Osaka Head Office 2-4-4 Nishi Temma, Kita-ku, Osaka 530-8565 Japan Tel: +81-6-6365-4122 Tokyo Head Office 2-3-17 Toranomon, Minato-ku, Tokyo 105-8450 Japan Tel:+81-3-5521-0521



Sekisui Chemical Group consists of three in-house companies (three business entities) and the corporate department, a business unit with its head-office functions, each of which operates various businesses.

High Performance Plastics

Developing and providing high performance materials to take your products even further.

Housing

Our business is based on the principle of providing environmentally friendly housing to offer safe and comfortable living for at least 60 years.

Urban Infrastructure and Environmental Products

Contributing to the development of safe and convenient infrastructure and water environments.

COMPANY PROFILE

High Performance Plastics Company

The High Performance Plastics Company utilizes its unique fine particle, adhesion and precise synthesis technologies to develop and provide high-performance and intermediate materials for a wide variety of fields such as electronics, automobiles and transportation, buildings and infrastructures, life sciences and industry.

Europe
SEKISUI CHEMICAL GmbH
2 SEKISUI ALVEO AG
SEKISUI ALVEO B.V.
4 SEKISUI ALVEO LTD.
SEKISUI ALVEO S.r.L.
6 SEKISUI ALVEO GmbH
SEKISUI ALVEO BS GmbH
3 SEKISUI-ALVEO S.A.
SEKISUI ALVEO (BENELUX) B.V.
🔞 SEKISUI ALVEO (GB) LTD.
SEKISUI S-LEC B.V.
SEKISUI SPECIALTY CHEMICALS EUROPE S.L.
B SEKISUI DIAGNOSTICS (UK) LIMITED
SEKISUI DIAGNOSTICS GmbH

• Buildings and Infrastructures

We supply materials for the construction and infrastructure sectors, including resin materials for heat-resistant pipes and fire protection materials.



 Specialty Chemicals Division (chlorinated polyvinyl chloride resin, etc) Fire Protection Materials Division Functional Tape Division (building materials)

Interlayer Film Division (building materials)
 Foam Division (building materials)
 Sekisui Fuller Co., Ltd. (building materials)
 Sekisui Fuller Co., Ltd. (building materials)

 Sekisui Techno Molding Co., Ltd. (water storage tank)

•Sekisui Nano Coat Technology Co., Ltd. (building materials)

• Automobiles and Transportation

We supply foaming materials and molded resin products used for interior and exterior automotive components, with a particular focus on interlayer films for automotive laminated glass in which we have the leading share of the global market.



 Interlayer Film Division (vehicle materials)
 Foam Division (vehicle materials)
 Sekisui Techno Molding Co., Ltd. (vehicle materials)

Functional Tape Division(vehicle materials)
Specialty Chemicals Division(vehicle materials)
Sekisui Polymatech Co., Ltd. (vehicle materials)

Global Expansion of Sekisui Chemical High Performance Plastics Company

In order to promote optimum and efficient use of raw materials and energy, and production in areas where demand is high, Sekisui has established production and sales bases not only in Japan but also all over the world to provide a range of products and services to meet customer requirements. We aim to further accelerate global expansion by adapting the business model of the Sekisui Chemical Group to suit local communities.



We supply advanced materials that include products such as conductive fine particles which we have the leading share of the global market, photosensitive materials and semiconductor materials.



Sekisui Chemical Co., Ltd. Device Materials Divison Sekisui Nano Coat Technology Co., Ltd. (electronic materials) Specialty Chemicals Division (electronic materials) Foam Division

(electronic materials) LJ Business Promotion Department Sekisui Polymatech Co., Ltd. (electronic materials)

• Life Sciences

We supply medical products such as reagents and analyzers and adhesives used in sanitary goods.



 Sekisui Medical Co., Ltd. ·Sekisui Fuller Co., Ltd. (sanitary materials)

Industry

We supply functional materials created from cutting-edge technologies, such as adhesives, packaging tapes, and plastic containers that are used in daily life and throughout society.

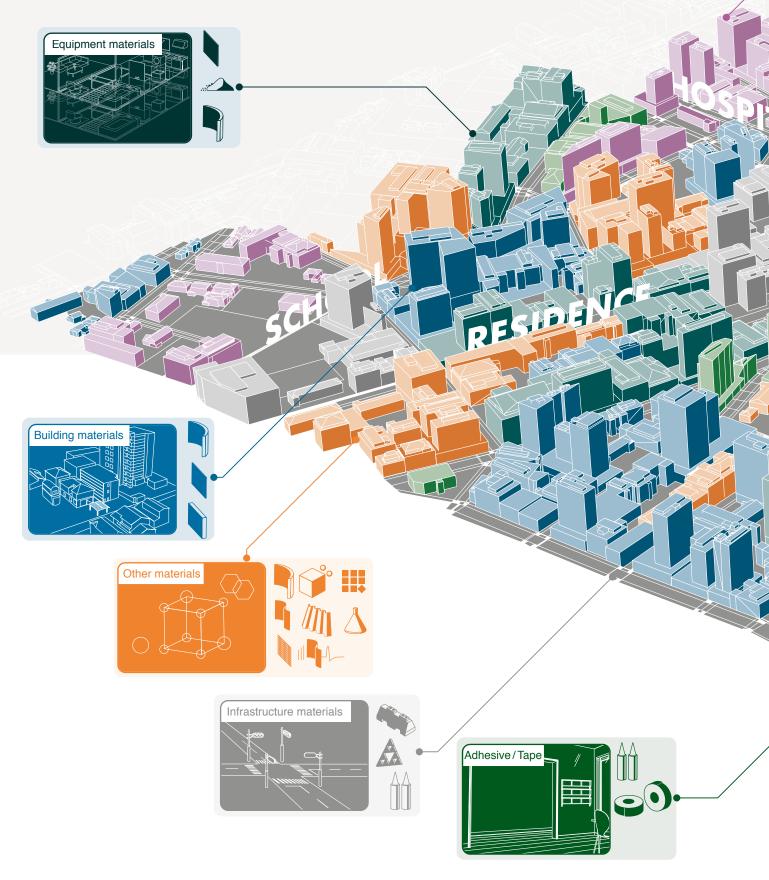


 Functional Tape Division (packing) ·Sekisui Fuller Co., Ltd. (hot-melt, etc.) ·Sekisui Techno Molding Co., Ltd. (container) Specialty Chemicals Division (industry materials)



High Performance Plastics for Buildings & Infrastructure

Our products are widely used in the housing, building, and infrastructure fields.





◆ Equipment materials

Fire-resistant thermal expansion material	$\textbf{Fi-Block}_{\textcircled{0}} \text{ (for fire stopping system)}$	P. 7
Chlorinated polyvinyl chloride resin	CPVC Resin & Compound	P.9
Foamed polyolefin insulation	THERMOBREAK®	P.11
Non-combustible damping sheet	CALMMOON Sheet	P.13
Building materia	als	
Damping sheet for metal roof	Bivres Roof Sheet	P.15
Sound-insulating sheet	Bivres Floor Sheet	P.16
Polypropylene foam board	Zetlon _®	P.17
♦ Infrastructure m	aterials	
Underground rainwater management solution	Cross-Wave	P.19
Fast, temporary access road construction	Plastic Road	P.21
New concept sun shade	Airyshade	P.23
Adhesive joint filter	S-Dine [®] Joiner-W	P.25
Highly resistant and super durable grounding resistance reducing agent	DOUDEN CRETE	P.26
وقت المراجعة المحاد		

♦ Adhesive / Tape

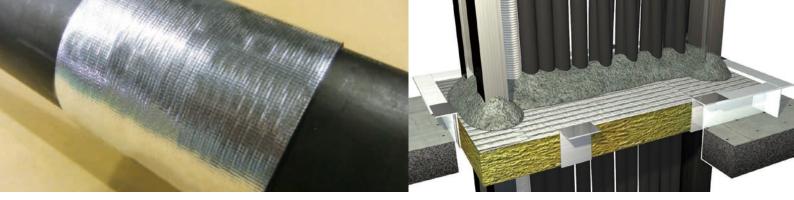
Modified silicone	Adhesive	P.27
Modified silicone	Sealant	P.29
Strong bonding tape	SEKISUI SJ	P.31
Adjustable	Double-faced Tape 530	P.33
Plasticizer-resistant	Double-faced Tape 577SA-L	P.34
Air-tight waterproof tape	747WT (double-faced tape) 740 (single-faced tape)	P.35
Masking tape	Masking tape	P.37
♦ Other materials		
Fire-resistant thermal expansion material	Fi-Block ® (for door , window)	P.39
Cross-linked polyolefin foam	Softlon _® S	P.41
Insulation material for corrugated metal roofs	Softlon _® SK	P.43
Open cell physically crosslinked polyolefin foam	Softlon _® OPC	P.43
Thin cross-linked polyolefin foam	Volara	P.44
Cross-linked polyolefin foam	Fabricated Softlon®	P.44
Architectural interlayer film	S-LEC™ Film	P.45
Heat-shielding net	Multi-functional heat-shielding net series	P.49
A heat shielding curtain	TESORO	P.51
Highly functional tatami	MIGUSA	P.53
Thermo-expandable microspheres	ADVANCELL [®] EM	P.55
Water-soluble film	ADVASOL	P.56
Cushioning / Damping materials	Rubber / GEL / Damper	P.57
Heat resistance and electrical insulation	Silicone Thermal Conductive Sheet	P.58
ciconical insulation		

◆ Materials for health care products Anti-allergen agent Allerbuster™

r

Antivirus processing agent	Viru-taker	P.61
Virus removing and disinfectant spray	NOWCARE	P.63
Natural mineral mist	NANOTOTALE™	P.64

P.59



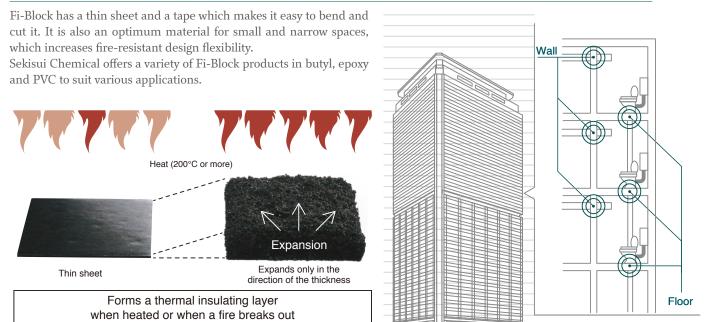


A new type of a fire-resistant material which expands and forms a thermal insulating layer when a fire breaks out.

Fire-resistant $Fi-Block_{\mathbb{R}}$ (for fire stopping system) thermal expansion material

Just by winding this organic fire-resistant material around a pipe, the pipe changes into a fire-protection one. Unlike conventional inorganic fire-resistant materials, this product expands to demonstrate fire-resistance and fire protecting performances only when it is exposed to heat from fires.

Features >>>



For cables >>>

• Certified by the Ministry of Land, infrastructure, transport and tourism (Certification related to the Building Standards Law) PS060WL-0514/PS060WL-0530/PS060FL-0808/PS060WL-0789/PS060WL-0788/PS060FL-0667

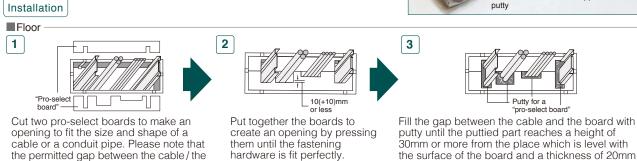
Advantages

- Unnecessary "electric tools".
- Available for both wall and floor.
- Easy installation for additional cables.

conduit pipe and the edge of the board

is less than 10mm.





30mm or more from the place which is level with the surface of the board and a thickness of 20mm or more. (However, a thickness of the part puttied to the board should be 10mm or more.)

For plastic pipe >>>

• Test Certificate/Approval BS476 Part20. EN1366 Part3.

Advantages

- Providing fire rating up to 2 hours.
- Easy retrofit installation by one person.
- To be installed easily even at limited space because of its thin sheet.
- Environmentally safe Halogen free and no fibres.



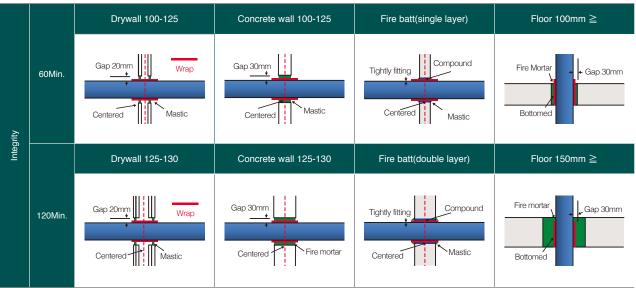
Wrap size : Or	ne size		Compatible supplemental equipment			
Length	Length Width Thickness		Mastic	Fire Compound	Fire Batt	
1,000 mm	130 mm	2.1 mm	Fire rating:120 minutes \geq	Fire rating:120 minutes \geq	Thickness:50 mm \leq	

Applications : One size fits all & versatile

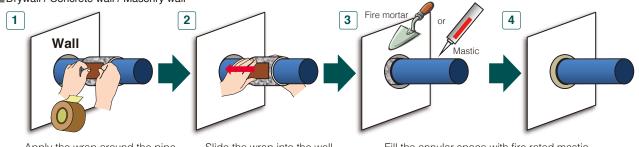
Performance matrix

						D	iameter								
				F	PVC			PE			ABS			PP	
			50	75	100	150	50	75	100	50	75	100	50	75	100
Wall		Wall	11.00												
Integrity 60Min. Floor Wall	Floor				11 00										
		1Lap 2		1Lap 2Lap		1Lap									
120Min.		Floor													

Wall/floor sections



Installation One size fits all & versatile Drywall / Concrete wall / Masonry wall —



Apply the wrap around the pipe, and tape the edges together.

Slide the wrap into the wall.

Fill the annular space with fire rated mastic or fire compound.



Industrial plate (clear windows etc.)

Equipment materials

Improved heat-resistant PVC resin with its excellent performance of PVC.

Chlorinated polyvinyl CPVC Resin & Compound

Sekisui CPVC is a post-chlorinated polyvinyl chloride. It offers improved heat resistance without sacrificing the excellent performance of polyvinyl chloride. The CPVC business segment at Sekisui Chemical is production and distribution of not only resin products, but also compound products that can be used directly in molding applications. Sekisui chemical can also provide technical assistance in molding applications with our own molding technologies.

CPVC molding process & applications >>>

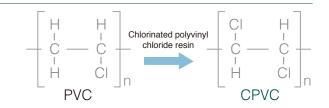
CPVC is suitable for several molding processes, including extrusion molding, injection molding and calendering.



Sekisui chemical can provide technical assistance in molding applications with our own molding technologies.

Features >>>

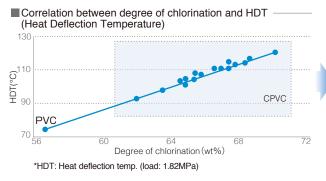
CPVC is obtained by adding chlorine to PVC. Sekisui's unique PVC polymerization and chlorination technology make it possible to manufacture chlorinated polyvinyl chloride of superior quality.



Specifications >>>

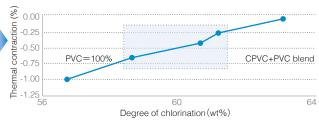
Heat resistance

The heat deflection temperature is 10°C to 40°C higher than that of normal PVC



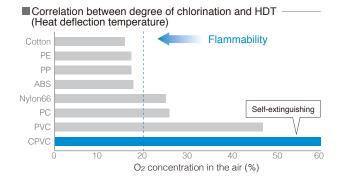
Superior thermal contraction properties at high temperatures due to improved heat resistance.

Correlation between degree of chlorination and thermal contraction (Reference: measured using pressed sheet)



High fire retardancy

Superior fire retardancy (Self-extinguishing resin)



Mechanical & thermal properties

ltem	Unit	CPVC	PVC
Specific gravity	-	1.52	1.43
Impact strength (izod)	j/m	150	150
Tensile strength	MPa	53-55	50-53
Tensile modulus of elasticity	MPa	2650	2550
HDT	°C	110	75
Linear expansion coefficient	1/°C	5×10 ⁻⁵	5×10 ⁻⁵

*Properties for raw materials for general extrusion molding applications

Chemical resistance

Resistant to a large variety of acids and alkali.

Durastream"

Durastream is a compound for plumbing applications , and has received certification from NSF, an international product certification institution in the United States. In addition to its physical properties, NSF also verified its safety to humans, and its credibility as a pipe material is guaranteed.(Certified to NSF 61/ NSF 14 standard)



Contact information Specialty Chemicals Division matter https://www.sekisui.co.jp/cs





A globally recognized product featuring excellent insulation and workability. Easily cuttable and bendable thermal insulation material THERMOBREAK[®]

Foamed polyolefin insulation

THERMOBREAK® is an thermal-insulating material made from physically (irradiation) crosslinked polyolefin form. It was developed 30 years ago in Australia and is now widely used in various applications such as air ducts and plumbing pipes as a high-performance thermal insulation. *THERMOBREAK®, which is a low GWP(Global Warming Potential) and allergy product does not use ozone destroying agents such as chlorofluorocarbons (CFCS) and hydro chlorofluorocarbons (HCFCS), PVC and formaldehyde, and meets the Green Star, RoHS, REACH and various fire-resistant standards.

Features >>>

It is produced using the Sekisui's unique electron beam cross-linking and forming technologies, which exhibits excellent insulation properties, low water absorption and low vapour permeability. And it meets various fire-retardant and smoke protection standards set by international institutions and organizations. It does not easily get scratched because of its surface with reinforced aluminum foil film on, and provides fast and simple installation because of its adhesive side laminated with a nonwoven fabric. It can be cut with a cutter and pressed easily.





Product lineup >>>

THERMOBREAK Class 0 sheet & tube THERMOBREAK LS sheet & LS-F tube THERMOBREAK No clad sheet & tube THERMOBREAK acoustic plus

The product that conforms to BS 476 Part6&7 Class 0

The product that conforms to FM approved, UL 723, Euroclass B S2, d0

Installable to exterior materials without racking

Sound-absorbing material used in air ducts



Purpose >>>

THERMOBREAK® has been used in over 600 buildings all over the world for more than 30 years.

and become a commonly used building material as foamed polyolefin insulation. In addition, its quality and reliability have been proven to be so high by the fact that it demonstrate a strong resistance to various types of climate in the world. The Sekisui Chemical Group has a global technical support system , which gives technical support in many countries and regions including Asia, the Pacific Rim, India, the Middle East and North America.



Vietin Bank Centre, Hanoi-Vietnam

Westin Hotel, Jakarta

WTC 3, Jakarta

SIDRA Hospital, Doha, Qatar

Specifications >>>

Physical properties

	Reinforced aluminum foil film +	Resistance to fungi (ASTM G21)	Zero growth	
Material	Electron beam crosslinked foam polyolefin foam + Acrylic adhesive	Leachable chlorides		
Density	25 kg/m ³ (foam only)	(ASTM C871)	< 12ppm (< 0.0012% w/w)	
Thermal conductivity	0.032 W/m • K(23°C)	Ozone resistance	Excellent	
(ASTM C518)	0.036 W/m • K(36°C)	UV resistance	Excellent	
Water vapor permeability (ASTM E96)	2.3 x 10 ⁻¹⁵ kg/Pa.s.m(0.0084 mg.m/N.h)	Green star rating	Low VOC certification	
Water vapor performance	1.95 x 10 ⁻⁴ g/MN.s	Noise reduction	0.20 (12mm foam thickness)	
Permeability resistance factor	μ > 80,000	coefficient (ISO 354)	0.30 (25mm foam thickness)	
		Operating temperature range	-80°C - 100°C (no adhesive)	
Water absorption by volume (ASTM C1763 B, 24h)	< 0.2% v/v	REACH regulation	Compliant	

Fire and smoke behaviour

Measuring methods	Description	Result	Remarks
BS 476 Part 6 & 7	Fire propagation Surface spread of flame	Class 0	
BS 6853 Annex B	Smoke toxicity	Complies (R < 1.0)	
ASTM E84 (UL 723)	Flame spread index Smoke development index	≦ 25 ≦ 50	THERMOBREAK LS \leq 25mm Complies(NFPA 90 A&B)
ASMT C411	Hot surface performance	Complies NFPA 90 A and B	
ASTM E162	Surface flammability	Complies NFPA 130	
ASTM E662	Smoke density	Complies NFPA 130	
FM 4924	Flammability standard for pipe and duct insulation	FM approved	THERMOBREAK LS sheet only: ≤ 25 mm THERMOBREAK LS-F tube only: $\leq 8"$ IPS (219mm) ID and \leq Wall thickness 50mm
EN 13823	Single burning item	Euroclass B-S2, d0 rating	THERMOBREAK LS sheet only
ISO 11925 Part 2	Ignitability	Euroclass B-S2, d0 rating	THERMOBREAK LS sheet only
IMO MSC 61 (67) Part 2	Smoke toxicity	Complies	
ISO 5695 Part 2	Smoke density Smoke toxicity	Complies IMO MSC 61 (67) Part 2 Dm<200 Satisfies max allowable concentrations for the following combustion gases: CO, Hcl, HBr. HF, HCN, NOx, SO ₂	
AS 1530 Part 3	Ignitability index Spread of flame index Head evolved index Smoke development index	0 0 0 0-1	
UL 94	Horizontal burn	UL approved to HF-1	





A high-performance, non-combustible and vibration-absorbing material capable of reducing noise and vibration simply by attacthing it to what you want to.

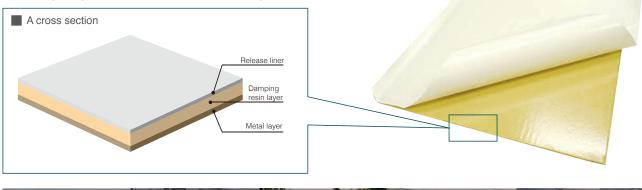
Non-combustible damping sheet

CALMMOON Sheet

"CALMMOON Sheet" suppresses far more vibration than conventional damping sheets do. It greatly absorbs vibrations of high and low frequencies.

Purpose >>>

Highly vibration-absorbing though the sheet is light and thin. Easy to install because the sheet has an adhesiveness. Suitable for people who are annoyed by discomfort and noise caused by vibrations.



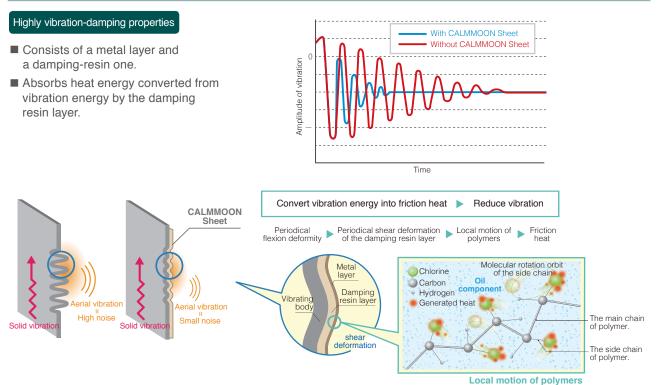


Reduces noise caused by vibration from an engine room.

Reduces unpleasant vibration and noise coming from a running motorcycle or car. Reduces radiated sound by attaching the sheet to the web area of the iron beam.

Reduces vibration noise from an air-conditioning system or duct.

Features >>>



Non-combustible

This sheet has been certified as a non-combustible product used for many purposes thanks to the fact that its flameretardant resin, which meets the standard equivalent to UL94V-O, is laminated with various metals.

Construction-related certificate

Certifying organization: The Minsitry of Land, Infrastructure,

Transport and Tourism (NM-0767)

Shipping-related certificate Certifying organization: Nippon Kaiji Kyokai (NK)(O6FPA35CV) EC TYPE EXAMINATION (MED) The Minsitry of Land, Infrastructure, Transport and Tourism(JG) Certificate:Fire retardant surface materials Primary deck coverings Railway-related certificate Certifying organization: Japan Railway Rolling Stock & Machinery Association, an incorporated association Certificate: Flammability standard for rail vehicle "Nonflammability"

Aircraft-related certicate

Test standard:CFR PART25.853(a) [Ambt25-116] Appendix F Part1

Easy installation

Easily attachable because of its adhesiveness.

Easily cuttable on the spot.

Light and great workability.

	General type	Shipping type	Aluminium type
Weight	3.8kg/m ²	6.9kg/m ²	3.4kg/m ²
Thickness	1.3mm	1.3mm	1.9mm



NM-0767



06FPA35CV

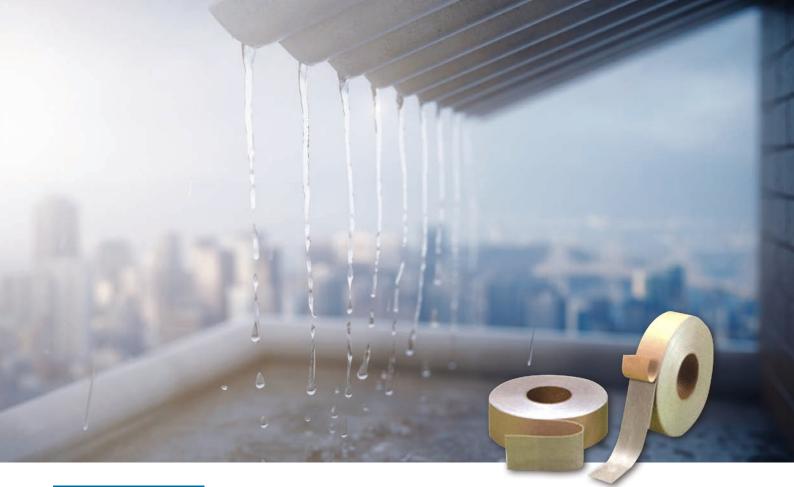
Railway-related certificate

- Eco-friendly
- The sheet that meets many industries' regulations of substances of concern (SOC).

CALMMOON conforms to RoHS (Restriction of the use of certain hazardous substance in electrical and electronic equipment) and ELV (End of Life Vehicles) directive regarding Cd, Pd, Hg, Cr+6, PBB, PBDE and to directive 2009/251/EC regarding DMF.

Low VOC emissions

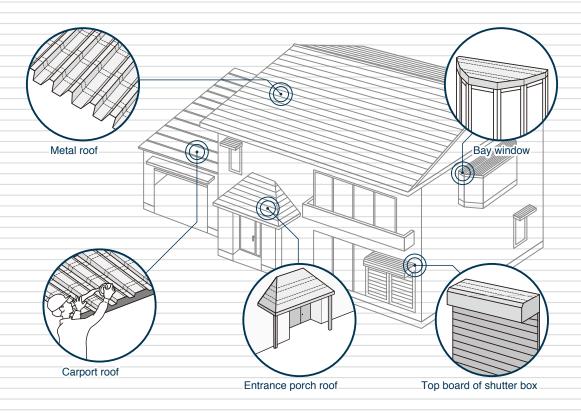
CALMOON emits far less Volatile Organic Compounds (VOCs), which are considered to be one of the major causes of the sick building syndrome, than the guideline level set by the ministry of health, labour and welfare.





Shuts out the unpleasant sound of rain! Drastically reduces the sound of rain falling on the metal roofs to provide a more comfortable living environment and lifestyle. Damping sheet Bivres Roof Sheet

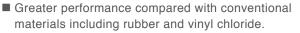
This is a sheet to reduce the sound of rain by lining a metal roof with it. The mechanical energy generated by vibration is converted into the the kinetic energy generated by high molecules in the sheet, thanks to which, the product can absorb sound makes it possible for the product to absorb sound. It is made of polyolefin resin whose sound-absorbing effect is much better than that of conventional materials such as rubber and vinyl chloride.



Features >>>

- Reduces the sound of rain by attaching the sheet to the back of metal sheets.
- Durable enough to be used for a long time.
- Easily installation thanks to adhesive backing.

Specifications >>>



Starts to absorb sound and vibration as long as it is applied to about 30% of the total area of the front side of an object.

Solvent adhesive

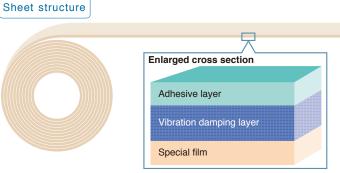
Bivres Roof Sheet

First, adjust the position of the adhesive side and the sheet, and then paste them together.

Attachable to a steel plate

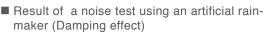
Easily installation because this sheet has an adhesive side.

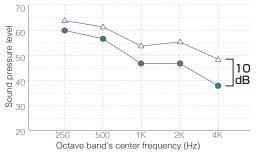
Steel plate for a roof



*Thanks to this structure, the sheet has great durability and workability.







Specifications							
Product No.	Width (mm)	Length (m)	Thickness (m)	Remark			
QN050D1	50	20	-	Concreter with adheaive			
QN060D1	60	20		Separator with adhesive			

(Measuring conditions)

Precipitation Measuring point: The backing of a triangular roof

Exterio

Interior

<Legend>

 \triangle :General folded-plate roof

General folded-plate roof partially laminated with Bivres Roof Sheet

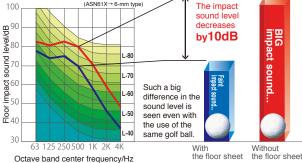
Sound-insulating sheet Bivres Floor Sheet

A combination use of this product and Sekisui Bond#75-SH (Modified silicone adhesive) can enhance sound insulation performance between low and high frequencies, and especially cut sound above 1kHz.

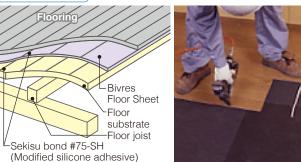
 Sekisui Bond#75-SH is free from substances which are harmful to the human body so that it is safe for use.

 Lightweight floor impact sound level (in a conventional wooden house)

 Without the sheet
 Without the sheet
 Without the sheet
 Without the sheet
 Without the sheet







Specifications

Item	ASN41X	ASN61X	ASN82X
Thickness(mm)	4	6	8
Size(mm)	910x910	910x910	910x455
Density(kg/m ³)	2.7	2.7	2.7
Weight per sheet	approx.9kg	approx.13kg	approx.9kg
Area density	11kg/m ²	16kg/m ²	22kg/m ²
Packing method	Packing method Flat stacking on a pallet		Flat stacking on a pallet
Unit per pallet	110	70	110





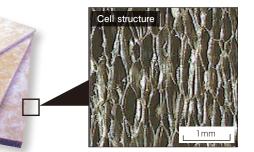
Easy and speedy flooring work without using plywood

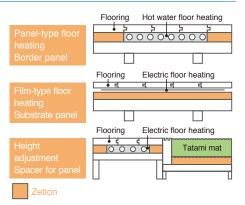
Polypropylene foam board $Zetlon_{\mathbb{R}}$

This is a closed-cell foam board for use as a floor substrate, which is made mainly of polypropylene. It is light and flexible but strong against compression stress. Not only it can be easily cut with a cutter, but it can also attach to various kinds of materials because of its surface laminated with a PET nonwoven fabric, which allows for easy installation.

Purpose >>>

Polypropylene is one of the typical synthetic resins used in many applications including daily goods and automotive interior materials. And it also can be recycled to produce a new molded product.





Example >>>

It is applicable to various materials such as building and industrial ones, which require lightness, strength against compression stress, great workability and other features.



Features >>>

High strength in compression

Flat cells are aligned in thickness direction so that great strength in compression is realized.

Lightness

The weight of Zetlon is about one-sixth of that of plywood, which allows for easy removal.

Lineup

The thicknesses ranging from 3 to 20mm are availble.

Adhesion

Attachable to surfaces of various kinds materials because of its surface laminated with a PET nonwoven fabric.

Flexibility

Flexible and hard to break so that it is suitable for bending work.

Specifications >>>

Specifications

Appearance		Size	Thickness
Color	Light brown		
Form	Plate-like structure	Width: 910mm Length: 1820mm	For floor substrates:5.5, 9, 12mm Standard: 3, 4, 5, 6, 7, 8, 10, 15, 20mm
Cell structure	Closed-cell structure		

*Note: If you want some other sizes or thicknesses, please contact us.

Physical properties

Item Unit		Types (by product number)												
item	Unit	ZNH0301	ZNH0401	ZNH0501	ZNH0551	ZNH0601	ZNH0701	ZNH0801	ZNH0901	ZNL1001	ZNL1201	ZNL1501	ZNL2001	Demender
Thickness	mm	3	4	5	5.5	6	7	8	9	10	12	15	20	Remarks
Weight	kg/m ²	0.401	40~0.55 0.50~0.70 0.65~0.75 0.75~0.95 1.2		1.25									
Compression strength	MPa	0.	75		0.65			0.55		0.45			0.40	JIS K 7220
Thermal conductivity	W/m•K	0.055	0.054	0.053					0.052			0.051		JIS A 1412
Softening point	°C		120~130						(DSC) Sekisui- unique method					
Linear expansion coefficient	1/°C		6~9x10 ⁻⁵					Sekisui- unique method						
Absorptivity	g/cm ²		0.0004					JIS K 6767						
	A grade for emission levels of formaldehyde Corresponding to F ☆☆☆☆ (A material not subject to notification)					ation)		JIS A 1901						

Workability

is needed.

Waterproofing

Thermoformability

Environmental safety

Cuttable with a cutter. No electric equipment

It seldom changes its size when exposured to

Its high melt tension allows for vacuum

Its formaldehyde emission rate is below $5\mu g/m^2h$, corresponding to the highest grade of

moisture and rarely absorbs water.

forming and press working.

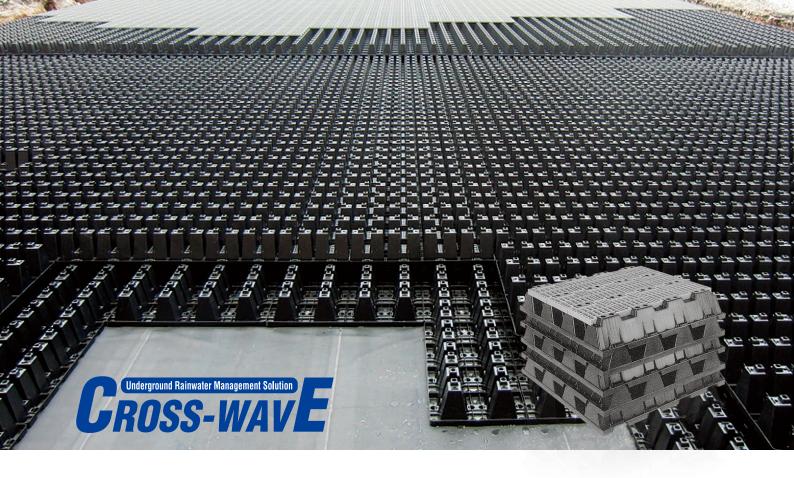
a product with F☆☆☆☆.

Example >>>

*Data are only references : they are not guaranteed values.



Housing interior materials such as floor substrates, heat-insulating materials for floor-heating systems and the center layer of a tatami mat
 Various kinds of panels and core materials of a modular bathroom wall, partitions, bulletin boards and others.





High void ratio helping to prevent flooding in urban areas

Underground rainwater Cross-Wave

Due to the increased frequency of intense storm events with more periods of drought, urban flooding from extra runoff as well as water shortage has become a severe issue in Japan and across the globe.

CROSS-WAVE is a modular solution of constructing underground stormwater attenuation, infiltration and rainwater harvesting system. Its simple design, high efficiency in storage capacity and easy of installation have led to thousands of underground tanks implemented at home and abroad for mitigating urban flood and help the utilization of rainwater resource.

Result >>>

Urban flood management

CROSS-WAVE can be used as a means of controlling urban runoff volumes.

By efficiently draining the surface water in a controlled way, or allow it to soak into the ground, the risk of localized flooding as well as the load on existing drainage systems are greatly reduced.

Can be applied

·Under open parks

·Under parking areas

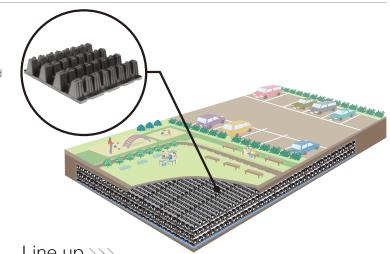
·Under plazas of shopping malls ·School playground and etc.

Rainwater harvesting

CROSS-WAVE is ideally suited to stormwater harvesting occupying no surface area at all. The harvested water then can be used for industrial, agricultural or domestic water supplies.

Can be applied

- Under open parks
- Under parking areas
- ·In gardens
- •Under farm road or green house •School playground and etc.



Line up >>>



Five types are available with different applicable ranges for installation depth and earth cover depth designed to perfectly tailored to individual site requirements.

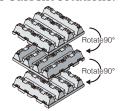
Features >>>

Benefits of CROSS-WAVE

CROSS-WAVE is a cost saving, effective way to control, store or harvest rainwater. Its stackable nature and light weight design simplifies delivery, site logistics and installation, making CROSS-WAVE an excellent alternative to current solutions.

1. High void ratio

High space can be maintained by intersecting it at 90 degrees and piling it up.
Reduce the amount of digging and can make a big volume storage in compact space.
As digging is small so post processing is easy.



2. Time saving

Installation can be done only by hand. Compared to using concrete no need curing time. No need heavy equipment unlikely to use precasting concrete products.

3. Heavy load resistant design

Can load 25 ton truck for vertical direction. ·4m-6m installation depth. 4. Easy installation

•Due to slide layer design no fixing material is required. •Installation speed is outstanding.

5. Eco-friendly

Recycled polypropylene is used. Excellent chemical and water resistant, do not pollute the water.

6. Compact storage

It can be easily stored if piled in the same direction and reduces storage space at the site.

Example >>>



Fukuoka: Elementary school rainwater reservoir (storage capacity: 800m³)



Aichi: Shopping center rainwater reservoir (storage capacity: 6,600m³)



Chiba: Residential land rainwater reservoir (storage capacity: 420m³)



Ishikawa: Rezoned land rainwater reservoir (storage capacity: 9,200m³)





Miyagi: Government office rainwater reservoir (storage capacity: 1,700m³)







Simple, temporary access road material for soft soils

Fast, temporary access Plastic Road

Conventionally, a combination of pit sand, crushed stone, sleepers and steel plates has been used to construct temporary access roads in order to erect power lines and perform other public works in fields etc. However, this has posed a number of problems, including longer construction periods and the issue of restoring the site to its original condition and disposing of waste material following its removal. Plastic Road enables the efficient construction and removal of temporary access roads.

Performance >>>

sites

Fallow fields	Can be used in fields after harvest.	Mountain areas	Suitable for confined areas where installation without machinery is necessary
Sand	Proven a track record on sand, including man-made beaches etc.	Indoors	Can also be used in gymnasiums and event halls
Waterways	Can be cleanly removed without polluting waterways	Other	Can be used in times of emergency, such as natural disasters etc.
Construction	Can also be used as a temporary access		

Installation procedure >>>

road for confined construction sites



Features >>>

Ground reinforcement

High water permeability delivers excellent ground reinforcement

Safety

Staggered arrangement structure provides increased safety

Strength

Permits passage of large dump trucks and 50t rafter cranes

Versatility

Extremely versatile and can also be used as a foundation for stockpiling materials or portable toilets

Easy installation

Plastic Road's lightweight and simple design makes it easy to install without machinery

Specifications >>>

Eco-friendly

Compact and easy to transport, drastically reducing CO₂ emissions

Prevents ground subsidence

Load distributing design helps to prevent ground subsidence and compression

No need for site restoration

Site can be easily restored back to arable land.

NETIS	Registration number : KT-100053-VR
The factor should be	an alatera di atale a matiena l'asiatata a farena est NETIO

This product is registered at the national ministry of transport NETIS.

ltom	Plastic Road				
	Full size	Half size	Spacer		
Dimensions (mm)	994x994x180	994x494x180	993x246x45		
Weight (kg)	6.5	3.3	1.4		
Vertical load bearing capacity (kN/m ³)	90	90	-		
Material		Recycled polypropylene			

Example >>>



2007: Overhead power cable installation (Niigata)



2011: Overhead power cable installation (Fukushima)



2017:Solar power system installation(Fukushima)



2016:Overhead power cable installation(Kumamoto)





Feel comfortable as if you took a rest under the shade of a tree ! This is a fractal sun shade with a unique stereostructure

New concept sun shade Airyshade

Airyshade is a fractal sun shade which adopts the new idea of putting together threedimensional pieces, which are invented based on a tree structure. One of its features is that it is a three-dimensional product with many openings on, which makes it possible to give a sense of spaciousness and create an airy place.

Product >>>

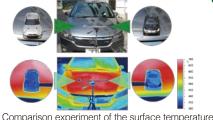
A fractal three-dimensional piece is the best characteristic.

The three-dimensional structure has been contrived by reference to a tree structure which is seemed to be a geometrically overlapping arrangement of many leaves of a tree. By putting the pieces together, an airy place as if it were the shade of a tree is created.

Fragment

A small thing like a leaf tends to store little heat.

Compared with a minicar parked under a tree and a passenger car under a tree, the minicar stores less heat. A small thing absorbs less light than a big one because of its small surface, which shows it does not get hotter than the big one.



Comparison experiment of the surface temperature of a passenger car and a minicar/Thermographic examination results

Stereostructure

Three-dimension structure that looks as if leaves were laid on top of each other.

A place covered with materials that do not breathe like a tent get hot, while a place under a tree is airy and cool. The adopted fractal structure lets the air in and out smoothly.





Material trait

A material which do not easily transfer nor absorb heat is used.

Airyshade does not get hot even if it is exposed to sunlight. Because a material, which is used in a basic piece, do not easily transfer nor absorb heat.



Features >>>

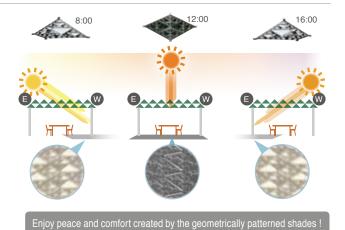
Excellent heat shielding effect ! Use Airyshade to turn strong sunshine to one filtering through the leaves.

It blocks the strongest sunlight in the daylight, but passes gentle sunlight in the morning and evening through. It is designed to block the strong sunlight based on the assumption of the strongest sunlight in the summer. About 95-percent near-infrared light, which causes a scorching heat, can be cut. On the other hand, it provides an epoch-making system that can take in much light in the winter when the sun is at a low altitude. You can enjoy a comfortable living environment throughout the year.

Airy and Great heat dissipation !

The three-dimensional Airyshade with many openings on creates a feeling of spaciousness and a well-ventilated place. It also releases heat and lets the fresh air in and out even in summer.





You may associate a sunshade with a dark place under it. But the place under Airyshade is so bright that you will feel a sense of spaciousness. And furthermore, seeing the geometrically patterned shades on the ground makes you feel cool.



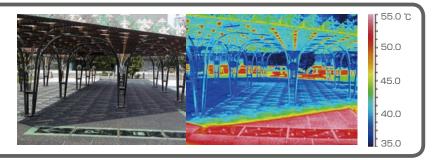
Cool places are created in urban areas without watering and electricity.

It is difficult to plant many trees on the roofs of buildings in urban districts. But with Airyshade, cool places like the cool shade of a tree can be created even there. Unlike rooftop greening, neither watering nor electricity is needed once it is installed.

Thermographic measurement in Odaiba,Tokyo

Area: About 250m² / Period: June 24.2009 - August 31.2009 It turned out that the ground under

the roof covered with Airyshade was relatively cool.



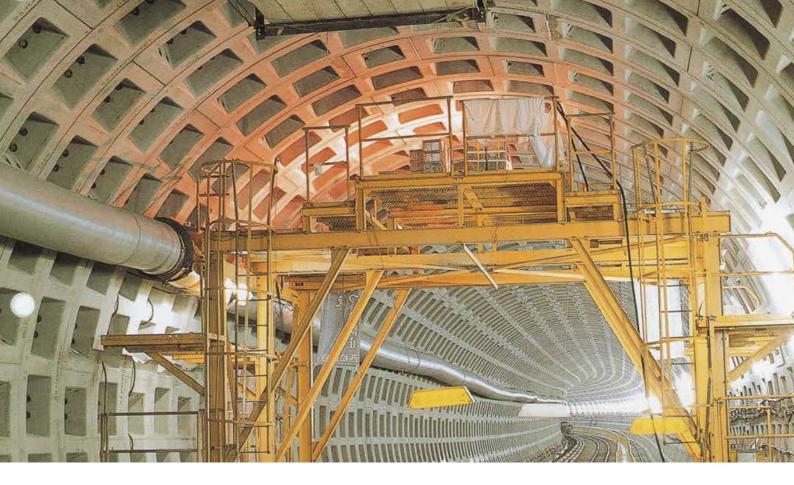
Example >>>



Park

Hospital/Nursing-care facility

Rest stop





S-Dine[®] Joiner-W is an adhesive joint filler made from a combination of epoxy resin and other special materials for concrete structures.

Adhesive joint filter S-Dine® Joiner-W

S-Dine Joiner-W boasts unique properties, delivering superior adhesion, even on wet surfaces and hardens underwater making it suitable for underwater applications. To date, work to completely seal sewage lines and tunnels etc. was extremely expensive, labor intensive and required long construction periods. Further, using mortar or quick-setting cement as a sealant often resulted in cracks that required repair work over the short term. S-Dine Joiner-W is extremely easy to use, solving all these problems at once. It also makes sealing concrete cement in areas where the flow of water is strong much easier.

Result >>>

Joint filler/Sealant

Joint filler and sealant for use on concrete joints in shield segments, seawalls, tunnels and underground structures etc.

Repair of cracked/damaged areas

Repair of concrete structures, such as waterways, dams, water treatment plants, tanks,Hume pipes, and underground structures etc.

Underwater adhesive

Bonding and repair work on wet surfaces and rock and concrete in fresh and saltwater applications.

Anti-corrosive coating

Anti-corrosive coating steel harbor structures, such as seawalls and piers etc.

Features >>>

Can be used as an adhesive on wet surfaces

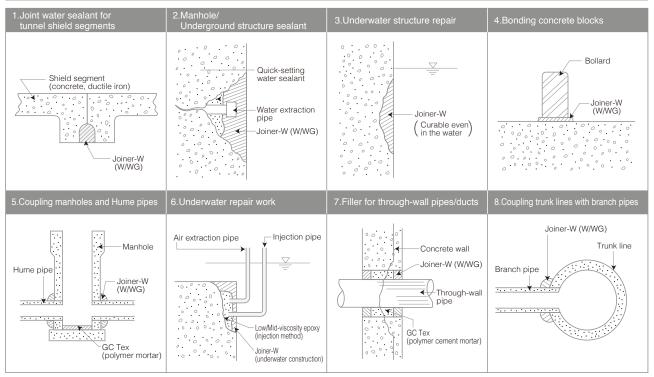
Easy to use with no prep needed



Will harden in fresh and salt water. (Joiner-W)

Economic and looks great

Example >>>



Specifications >>>

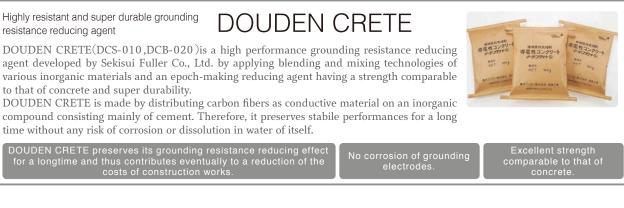
Item	Joiner-W	Joiner-WG	
Wet surface adhesive	Excellent	Good	
Underwater construction	Excellent	NG	
Pot life (20°C)	40-60 mins		
Curing time (20°C)	24hr		
Application method	Hand	Grease gun, spatula, trowel	
Blend ratio	Base compound (A) : Curing agent (B) = 1 : 1		
Packaging	10kg set: Base compound (A) 5kg + Curing agent (B) 5kg		

General properties

		Joine		Joiner-WG		
	ltem	Base compound (A)	Curing agent (B)	Base compound (A)	Curing agent (B)	
Арр	earance	Greyish-white putty	Grey putty	Greyish-white putty	Grey putty	
Main c	omponent	Ероху	Polyamide amine	Ероху	Polyamide amine/Cycloaliphatic polyamine	
Shrinkage	reduction ratio					
	Thermal Mass change 1% or less		r less		1% or less	
reaction	Volume change					
Specific gravity of cured product		1.6±0.1		1.7±0.1		

S-Dine Joiner-W can also be supplied in blue as a special order product.
 S-Dine Joiner-W comes in the form of a clay-like paste that can be hand-mixed.

S-Dine Joiner-WG forms a soft putty when machine-mixed (mixer etc.) *Data are only company standards; they are not guaranteed values.





Adhesive which takes both the environment and health into consideration. This is one of the Sekisui Chemical's highly recommended products.

Modified silicone Adhesive

The modified silicon adhesive can be used in temperature from - 50 °C to 90 °C . And, compared with other adhesives, it is so flexible that it can adhere to more things including tiles and flooring.

It also has recently been used widely in vehicles, vessels, building materials and industrial ones.

Sekisui Bond #55-S (for floor jacks and flooring including one with floor heating system)

Ideal for bonding floor joists, timber flooring materials and steel/plastic floor jacks etc. JAIA F ☆☆☆☆ JAIA 4VOC standard

Features >>>

- Highly efficient one-part adhesive for bonding floor joists and performing floor finishing work.
- Effective in preventing floor from creaking caused by other adhesives.
- Less odor, making it friendly to workers and the environment.
- Easily removed when applied to unnecessary floor surface areas etc.
- Highly viscous mastic adhesive that serves as filler on uneven surfaces.
- Great durable and highly resistant to shock and vibration when it hardens. Which makes it possible to relax expansion and contraction strees on the adherend.

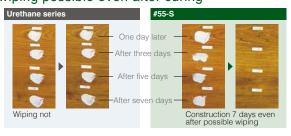
Does not foam, preventing creaky floors





Urethane adhesive (foaming)

Modified silicone-based # 55-S series. wiping possible even after curing



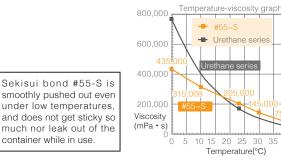
Applications >>>

- Bonding the joists to the floor frame using two-by-four construction and other conventional floor construction methods.
- Bonding timber flooring to timber floor frame materials, such as plywood and particle board etc.
- Bonding with panels of installed floor heating.
- Laying dual-layer flooring. Bonding steel/Plastic floor jacks.

Specifications >>>



Comparison of two adhesives for flooring - Changes in viscosity



1	/olume/No. of packages		
	Volume	No. of packages	S
	500ml sausage (750g)	20 pcs./box	Floor He
_			

otainai	ala acago
Floor Heating	System 200g/m ²

30 35 40

Sekisui Bond DG-A One component moisture cure

Tenacious adhesion

Features >>>

- Secure bond before curing with high viscosity.
- High adhesiveness, high elasticity.

Applications >>>

- Sealing and bonding for buildings, automobiles and container industry.
- Sealing gaps and expansion joints.
 Structural bonding for vibrating constructions.

Volume/No. of packages

Volume	No. of packages	Standard usage
500ml sausage (750g)	20 pcs./box	20m (Φ5mm) / pcs.

Sekisui Bond # 75-SH One component moisture cure

Multi-purpose adhesive JAIA F ☆☆☆☆ JAIA 4VOC standard

Features >>>

■ Multi-purpose adhesives with high strength.

With the plasticizer-free formula, the adhesive would least contaminate the substrates.

Applications >>>

- Wood floor adhesion. Fixing metal plates.
- Various interior parts adhesion, decorative plates, doors, wall plates, ceiling panels, etc.

Volume/No. of packages

Volume	No. of packages	Standard usage
400ml sausage (600g)	20 pcs./box	Floor 200g / m ² Wall 250g/m ²

Sekisui Bond # 77EX2 One component moisture cure	
For exterior tiles JAIA F ☆☆☆☆ JAIA 4VOC standard	and the second se
Features >>>	
 High strength suitable for exterior tiles requiring high durability. Easy tile construction without temporary fixture. Applications >>> 	
Exterior tile adhesion. Irregular wall surface filling.	
Volume/No. of packages	

Volume	No. of packages Standard usage		
2kg sausage	9 pcs./box	1-2kg/m ²	

Sekisui Bond # 95 One component moisture cure	A DECEMBER OF THE OWNER OWNER OF THE OWNER OF THE OWNER
For wood flooring JAIA F ☆☆☆☆ JAIA 4VOC standard	
Features >>>	
Low-viscosity type for notched trowel Must try it! Easier use th	an PIJ type

w-viscosity type for notched trowel. ■ Must try it! Easier use than PU type.

■ The usage can be reduced as notched trowel creates sharp "V"edges. ■ The adhesive will not stain the skin. Applications >>>

Wood floor adhesion.

Volume/No. of packages 500ml sausage (750g) 20 pcs./box Floor 300g-600g/m²



Sealant for interior and exterior work, which takes both the environment and health into consideration. This is one of the Sekisui Chemical's highly recommended products.

Modified silicone Sealant

With the Sekisui's unique compounding technology using high weather-resistance modified silicone polymer, this sealant achieves the highest resistance to weather in the industry.

Features >>>

No hazardous chemicals.

Adhesion wide variety of materials

- Almost odorless, which makes it possible for residents to stay at the home during interior renovation work.
- Attaches to various adherends. And, with an excellent function of filling up gaps, it sticks well to different materials and even to irregular surfaces.
- Turns into an elastic rubbery foam after cured, which absorbs external stress and realizes a stable adhesion for a long time.



The sealant came off from the interface. The sealant filled up the gap.

[Measuring conditions]

A gap was filled using each of the sealants and then stretched two times.

Performance after cure

PE,PP,PTFE 5 CR rubber Poly carbonate	 Modified silicone Polyurethane Silicone C steel Plywood
Polystyrene FRP Rigid PVC Ceramics	Particle board crete

Item	MS	Polyurethane	Silicone
Weather- resistance	Excellent	Poor	Excellent
Durability	Excellent	Fair	Excellent
Heat-resistance	Good	Fair	Excellent
Wide range bonding	Excellent	Fair	Poor
Sound or deformation absorption	Excellent	Fair	Good
Staining	Good	Good	Poor
No bubbling	ОК	Bubbles	OK
Paintable	Yes	Yes	No

Specifications >>>



The material itself has mold-proof property (JIS Z2911 mold resistance test).

The area surrounding the joint gap will not be contaminated by silicone oil.

Sekisui Sealant MS LM-P One component moisture cure

Exterior sealant

Features >>>

- Highly excellent weather resistance/ durability. No color change, no cracks for long years.
- Friendly to the job site and global environment.

■ Paintable. ■ No bubble issue like polyurethane sealant.

Applications >>>

Sealing of joints for exterior walls.

Volume/No. of packages

Volume	No. of packages	Standard usage
500ml sausage (750g)	20 pcs./box	5m (Ф10mm) / pcs.
· · · · ·		

Sekisui Bond # 72-A Quick curing Type (compared with the other types) One component moisture cure	
Multi-purpose adhesive/sealant JAIA F ☆☆☆☆ JAIA 4VOC standard	123 J
Features >>>	Sekisu
 Multi-purpose type for both adhesion and sealing. Robust adhesion to the substrates with proper flexibility. Applications >>> 	12-172-A

- Adhesion to wood flooring.
- Adhesion to various interior parts, decorative plates, doors, wall plates, ceiling panels, etc.
- Various interior sealing. Adhesion to insulation panels.

Volume/No. of packages

Volume	No. of packages	Standard usage
330ml cartridge (500g)	10 pcs./box	Floor 200g/m ² Wall 250g/m ²
500ml sausage (750g)	20 pcs./box	

Sekisui Bond # 7	2-K One component moisture cure		
Mildew-proofing adhesi	ive/sealant JAIA F ಭರ್ಷಭರ್ಭ JAIA 4VOC s	standard	BOSUL FULL"
Features >>>			Sek Sek
General purpose adhesive and sealant.			isui i sui
High mildew proofing ability.			9 8 8
Applications >>>			of a lond
Various sealing for washstands, bathroom, kitchen, toilet.			
Volume/No. of package	es		
Volume	No. of packages	Standard usa	ge

12-13m (Ф5mm) / pcs.

Sekisui Sealant MS LM-OS	One component moisture cure	
Exterior sealant		UNIV BRIEZE
Features >>>		Unit BROOD
Sealing with high elongation, h	nigh weatherability and low contamin	nation properties.

Waterproofing the joints, and maintaining the superior appearance of the building.

10 pcs./box

Applications >>>

330ml cartridge (500g)

Exterior joint sealing.

Volume/No. of packages

Volume	No. of packages	Standard usage
500ml sausage	20 pcs./box	4.2m (10mm x 10mm joint)



Eco-friendly, super strong double-faced bonding tape

Strong bonding tape

SEKISUI SJ

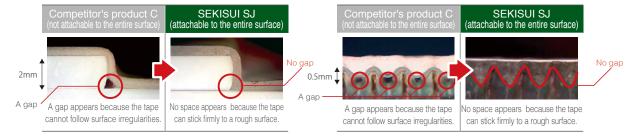
This is a strong type of double-faced tape. It can be used in a wide range of applications.



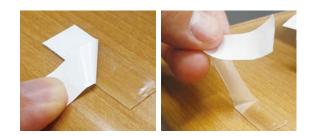


Uneven surface

Tightly attachable to an uneven surface and a soft adhesive layer



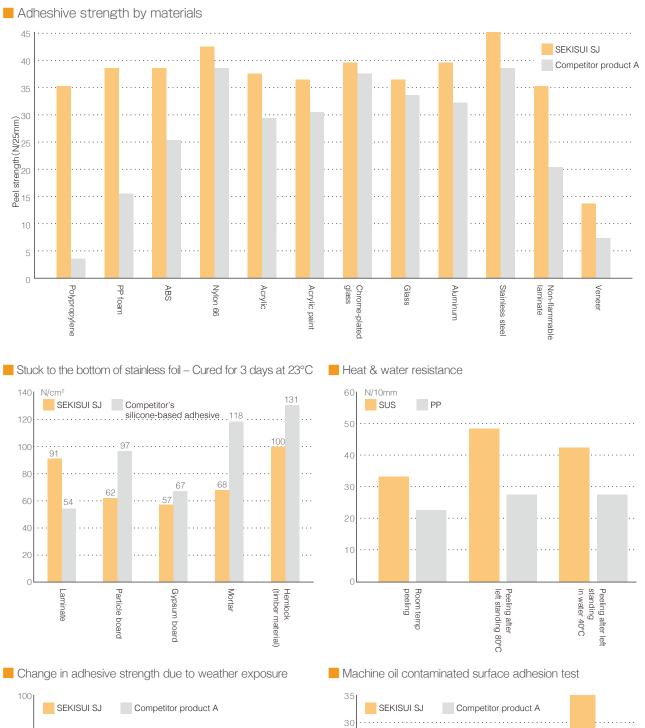
- Single layer of acrylic resin that is flexible strong
- Adherent to low polarity material including PP and nylon
- Good adhesion to rough surface such as plywood
- Adhesive to oily surface
- Good weatherability and heat & water-resistance
- Do not use 13 substrates including toluene and formaldehyde

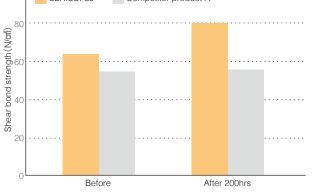


Peel away film: Silicone treated film

Adhesive layer: Acrylic olefin

Result >>>





<Measuring conditions>

Sample: Transparent acrylic (t2mm)/coated steel sheet, affixed 20x20mm, irradiated from acrylic surface

Weather exposure ASTM23→ Shear adhesion test speed: 50 mm/min

<Measuring conditions> Sample: Contaminated with machine oil #32 1 g/m2

Peeled at angle of 180°C, peel speed 50 mm/min, backed with 0.5 mmPET

After 60 mins

Data are only references; they are not guaranteed values

After 42 hrs

After 20 mins

Peel



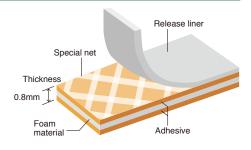
Double-faced tape allowing for easy positioning, which can stick to building materials only when pressed.

Adjustable Double-faced Tape 530

It is a double-faced tape that can be repositioned, making it suitable for dry flooring systems.

Features >>>

- Positional adjustment is easy due to our special net laminate structure. The solvent-free design means no curing, enabling fast installation.
- It can be removed without sticky residue when the time comes to replace the flooring.
- The flexible base material adheres well to uneven surfaces, ensuring a large adhesion surface area. This helps to provide sufficient adhesion to rough or irregular surfaces. The tape also uses a highly durable acrylic adhesive for a reliable result.
- 530 does not contain organic solvents or toxic formalin as is often the case with adhesives.



*Data are only references; they are not guaranteed values.



Specifications >>>

Physical properties				
Ite	m	Unit	Measurement	Remarks
Adhesion Front (stainless steel) Back (net)	Front	NUCESSE	41.0	
	Back (net)	- N/25mm	11.4	JIS Z 0237 (90° peeling)
Rolling ball tack test	Front		30	JIS Z 0237(J,DOW)
	Back (net)	1/32"	_	
Holding performance (stainless steel, 40°C)	Front		0.4	110 7 0007
	Back (net)	mm	0.6	- JIS Z 0237
Shear a	dhesion	N/cm ²	31.9	Sekisui-unique method

Adhesion by material

Item		Unit	Measurement	Remarks
Plywood	Front	- N/25mm	61.25	JIS Z 0237 (90° peeling)
	Back (net)		36.75	
Gypsum board	Front		15.6	
	Back (net)		12.5	

Product size

Tape thickness	Tape width	Tape length			
0.8mm	950mm	10m/20m			



A double-faced tape for interior work The tape can fix even soft polyvinyl chloride.

Plasticizerresistant

Double-faced Tape 577SA-L

Adhesive / Tape

This double-faced tape can stick firmly to soft polyvinyl chloride, which easily peels off when conventional tapes are used.

In addition, since it is also designed to reduce VOCs emissions, it is eco-friendly.

Double-faced release line

Acrylic adhesive

Non-woven fabric

Acrylic adhesive

Features >>>

- No thirteen substances, which are designated to be harmful to the human body by Japan's Ministry of Health, Labor and Welfare, is used.
- Prevents a decrease in its adhesive strength when the tape is attached to an adherend containing plasticizers such as soft polyvinyl chloride.
- Heat-resistance
- Plasticizer-resistance
- Low VOC

Specifications >>>

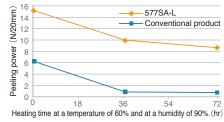
Physical properties

Tape thickness (mm)	0.13	_	
SP adhesive (N/25mm)	18.9	In accordance with JIS Z 0237	
PP adhesive (N/25mm)	12.2	180° peel test (Speed of peeling rate 300mm/min.)	
80°C holding power (mm)	0.4	The misalignment was assessed after one hour of the test.	
Shearing stress (N/cm ²)	178	Speed of peeling rate 200mm/min.	

Anti-repulsion resistance test using PP and soft PVC

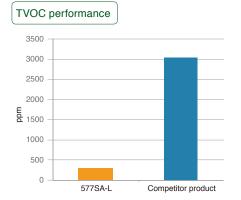


Adhesion by flexible polyvinyl chloride

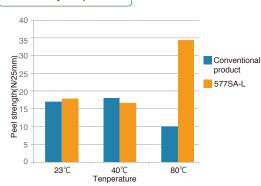


Test method

PP and soft PVC were put together, and it was placed at a temperature of 60°C and at a humidity of 90% for two weeks.



Adhesion by temperature





5775A-L remained strong adhesion after attached to soft PVC.



747WT is recommended tape by NYG (Japan Fiber Reinforced Cement Sidings Manufacturers Association)

Air-tight 747WT(double-faced tape) 740(single-faced tape) waterproof tape

747WT and 740 are both acrylic, air-tight waterproof tapes used to seal off gaps around the house and the joints between connecting parts.



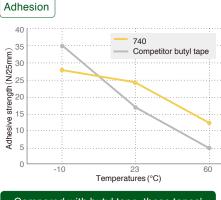


Features >>>

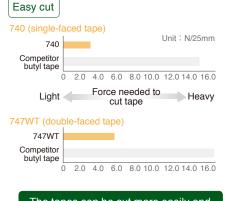
- It is easy to cut by hands.
- The workplace and hands are not stained because of the Acrylic adhesion.
- Airtight waterproof tape (D/S and single faced tape) can use in wide range of temperature from -10°C~ 60°C.







Compared with butyl tape, these tapes adhesive power is not susceptible to temperature changes, making it possible to remain stable adhesion



The tapes can be cut more easily and more smoothly by hands than butyl one, which improves workability.



Staining by butyl tape(competitor's)

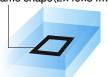
No risk of secondary damage such as getting users' hands dirty because the tapes are designed to avoid staining something

Properties >>>

Excellent airtightness

Waterproof test

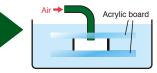
Test tape cut into a frame shape(2×40×54mm)





Put the test tape between two acrylic boards. And then apply a pressure of 4kg per square meter on it for 7 seconds. Finally, leave it at normal temperature for one day.

30kPa≒Water pressure of a 3-meter depth





Put it in the container filled with water, and then calculate how long it will take for air to leak out of it.

Item	Normal tempera	ature (23°C)	40°C	:
Product	Sekisui's acrylic double-faced tape	Company A's butyl double-faced tape	Sekisui's acrylic double-faced tape	Company A's butyl double-faced tape
IPX7	>30min	15min	>30min	68sec
IPX8	>30min	30sec	4min	1sec

The Sekisui's tape ensures greater waterproofing property at normal temperature and at 40°C.

Suitable for sealing a joint between a waterproof-breathable sheet and a thermal insulation board. Suitable for use in a gap around window frames, air vents and other openings in a building, where water proofing is needed.

Specifications

General properties

ltem	Width (mm)	Thickness (mm)	Length (m)	Color	No. of rolls per carton	Item	Adhesive strength (N/25mm)	Tack ball No. (1/32")	Tensile strength (N/10mm)	Elongation (%)							
	50		30														
747WT	75	0.22		Black	24	747WT	21	27/29	40	20%							
	100		20	00	18												
	50		20	20	20	20	20	20	20			30					
740	75	0.16		Black/ White	24	740	20	25	34	16%							
	100]		VIIILE	18												

Physical properties

Item	Sample	Temperature (°C)	NYG standard	747WT (N/25mm)	Result	
		60		10		
	SUS	23		21		
	-	-10		24	Good	
		60]	19		
Adhesive strength	Hemlock	23	3.0N or more	43		
		-10		24		
		60		11		
	Moisture-permeable waterproof sheet	23		20		
		-10		12		
	Holding force	60	5mm or less	0	Good	
	Adhesion stability	23	No leak	None	Good	
	SUS			41		
Durability	Hemlock	23	2.5N or more	40	Good	
	Moisture-permeable waterproof sheet			26]	
Stap	ble water leak test (reference)	-10		None		

*Data are only references: they are not guaranteed values.



Easy to cut by hands, bringing about excellent workability.

Masking Tape

Our masking tapes are suitable for use in construction sites (indoor or outdoor) and usable without damaging flooring or other building materials.

Spatt Light Tape 733

For holding and securing sheets on timber flooring.

Features >>>

- ~For construction use and flooring~
- Easy to cut by hands
- Leave little adhesive residue in various working environment



Specifications

Color	Width (mm)	Length (m)	No. of rolls per carton
	38	25	36
Croop	38	50	30
Green	50	25	30
	50	50	30
Semi-transparent	50	25	30

Physical Properties

Item	Unit	#733
Tape thickness	mm	0.11
Adhesive strength	N/10mm	2.1
Tack	Ball No.	16
Tensile load	N/25mm	1.4
Tensile strength	N/10mm	36
Elongation	%	19

Smart Cut Tape 833

Flexible, easy to tear film

Features >>>

~For flooring~

- Excellent flexibility and well attached irregular surfaces
- Easily and smoothly pulled out help users finish their work more quickly
- Variety of the colors and able to write on the tape



Specifications

<u></u>								
Color	Width (mm)	Length (m)	No. of rolls per carton					
Orange	38	25	36					
	50	20	30					

Physical properties

Item	Unit	833
Tape thickness	mm	0.12
Adhesive strength	N/10mm	2.2
Tack	Ball No.	12
Tensile load	N/25mm	1.4
Tensile strength	N/10mm	46
Elongation	%	23

*Do not apply these tapes to plain wood, otherwise pollution may occur.

*Depending on a quality of an adherend or a condition of its coated surface, these tapes may leave adhesive residue, cause discoloration or damage the adherend. Please check the quality and the condition and then use the tapes.

Fitlight tape 736 (Strong adhesive type)

Suitable for paving roads such as concrete and asphalt ones, and for heaping up face blocks. Extremely strong, hard to shrink on exposure to heat, and highly adhesive to a rough surface.

Features >>>

- ~For construction and exterior~
- Able to use outside of wall and road
- Good heat resistance and tear-resistance
- Good adhesion to rough surface and less adhesive





A 140-kg of load is applied on by a truck A video of a heat resistance test



Sticks fast to a rough surface



Not comes off even under great pressure Not tears while being removed



Specifications

Color	Width (mm)	Length (m)	No. of rolls per carton
	50		30
Manaa	75	25	24
Mango	100	20	18
	150		12

3 1 1 1 1 1 1		
Item	Unit	736
Tape thickness	mm	0.12
Adhesive strength	N/10mm	3.3
Tack	Ball No.	15
Tensile load	N/25mm	0.5
Tensile strength	N/10mm	40
Elongation	%	30

*Data are only references; they are not guaranteed values.

Paint Masking Tape

Paper masking Tape 653

Masking tape designed for general building painting work.

Features >>>

The tape has minimal elasticity for easy application. 653 demonstrates a high resistance to solvents so there is little peeling and residue when painting.



Specifications

Color	Width (mm)	Length (m)	Individual packing(M)	No. of rolls per box	No. of rolls per carton
	12		10	100	1,000
	15		8	80	800
	18		7	70	700
	20	18	6	60	600
\ A /l= :+ =	24		5	50	500
White	30		4	40	400
	36		3		
	40		3	30	300
	50.60		2	20	200
	80		1	10	100

Paper masking Tape 655

Masking tape for sealing work.

Features >>>

Physical properties

The tape has minimal elasticity for easy application. Creates clean lines and comes off smooth when removed.



Specifications

Color	Width (mm)	Length (m)	Individual packing(M)	No. of rolls per box	No. of rolls per carton	
	12		10	100	1,000	
	15		8	80	800	
	18	18	7	70	700	
Dius	20		6	60	600	
Blue	24		5	50	500	
	30		4	40	400	
	40		3	30	300	
	50		2	20	200	

*Data are only references; they are not guaranteed values.

38

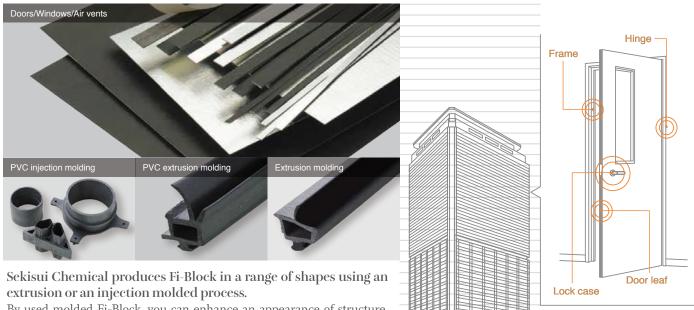




A new type of a fire-resistant material which expands and forms a thermal insulating layer when a fire breaks out.

Fire-resistant thermal expansion material Fi-Block® (for door,window)

Fi-Block, a flexible, organic and thin fire-resistant material, is produced for using the Sekisui Chemical's plastic technology. Unlike conventional inorganic fire-resistant materials, it demonstrates fire-resistant and fire-proof properties only when it expands in reaction to fire.



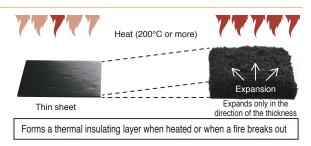
By used molded Fi-Block, you can enhance an appearance of structure. On the other hand, Fi-Block used in an attachment part made by an injection molded process, which is also suitable for a tentative fixing.



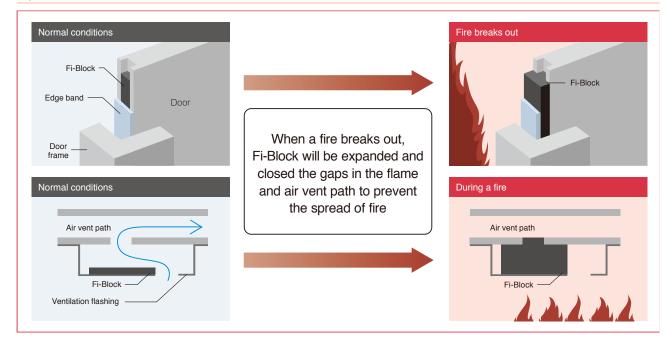
Features >>>

Fi-Block is a thin sheet and can be applied with adhesiveness, which makes it easy to bend and cut it. It is also an optimum material for small and narrow spaces, which makes fire-resistant design more flexible.

Sekisui Chemical offers a variety of Fi-Block to suit various applications.



Specifications >>>



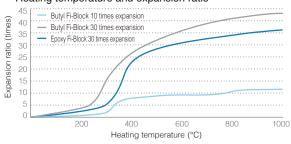
High expansion/Thermal insulation

Fi-Block will not expand under room temperatures. When heated in more than 200°C, it will be expanded from 5 to 40 times of its original thickness (and the rate of expansion can be adjusted or designed to conform to requirements), forming a thermal insulating layer. It demonstrates superior thermal insulation properties, withstanding a fire.

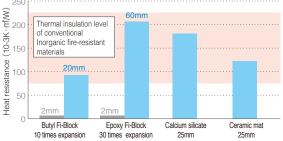
Superior workability

With its thin and flexible shape, Fi-Block can be easily bent and cut. It can also be used in small and confirmed spaces, which have always proved problematic.

Expansion performance: Heating temperature and expansion ratio







When a 2mm-thick Fi-Block expands, it provides high thermal insulation equivalent to that of a 25 mm inorganic fire-resistant material.

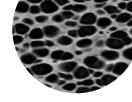




A closed-cell polyolefin material

Cross-linked polyolefin foam $Softlon_{\mathbb{R}}S$

heat insulation, and sealing.



Other materials

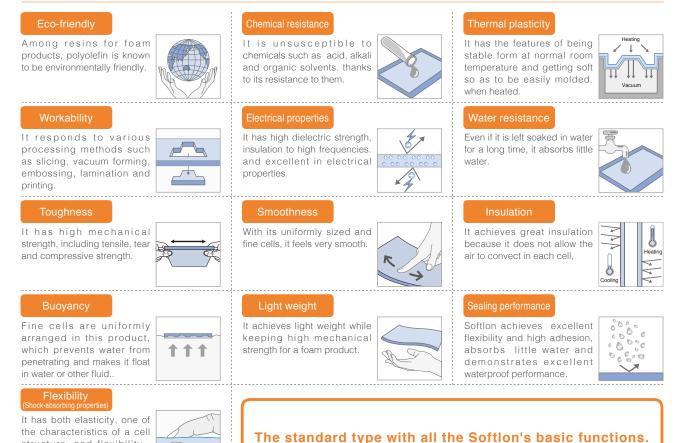
Various kinds of Softlon S, whose expansion ratio is from 5 times to 40 times, can be selected according to customer needs.

This is a foamed product which achieves an ideal balance of flexibility, smoothness,

Features >>>

structure, and flexibility, one of the characteristics of

polyolefin.



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Specifications >>>

Comparison of flexibility (Shock-absorbing properties) of Softlon S and other materials

ltem		Unit	SoftIon S (Polyethylene foam)	Soft urethane foam (Ether type)	Soft PVC foam	Polystyrene foam
Cell str	Cell structure		Closed	Open	Closed	Closed
Thick	ness	mm	3.00	9.84	4.82	5.20
Apparent	density	kg/m ³	33	17	140	32
Tensile	MD	kPa	420	90	980	_
strength	TD		290	100		
Elengation	MD	%	204	179	111.5	-
Elongation	TD		165	212		
	25%		34	2.5	64	240
Compressive strength	50%	kPa	98	3.2	145	307
	75%		320	5.7		542
Compression set			6.5	1.5	3.0	21.5

*Compared with Sekisui's products. Data are only references ; they are not guaranteed values.

Softlon S has intermediate nature between the nature of soft urethane foam and that of polystryrene foam. Its shape can be flexibly changed. In addition, it has good tensile strength and flexibility, and achieves high elasticity, which relieves the feeling of pushing the bottom.

Option >>>

Properties of the higher-grade Softlon.

Heat insulation

Softlon is a combustible foam material with a basic function of being resistant to 70°C heat.

However, both Softlon NF and Softlon SP have higher heat insulation, which are suitable to make a wide range of molding products.



Flame retardancy

All the Softlon series are designed to burn at a slow pace and give off little black smoke and toxic

gases.Softlon FR-ND and THERMOBREAK[®]-RT achieve higher fire retardancy so that they are suitable for use in producing special things such as railroad cars.



Thermoformability

Softion is made of physically cross-linked polyolefin so that it is excellent in tensile strength, elongation and tear strength. Softion SP and Softion IF can be thermoformed so easily that they can be molded more flexibly, such as being deep drawn by vacuum forming.

Softlon NF/SP

Rates of each Softlon series' dimensional changes before and after heated

ltem	Thickness	Density	Dimensional changes (% • MD)				
item	(mm)	(kg/m ³)	70°C	90°C	110°C	120°C	
Softlon S	3.0	33	-1.0	-	_	_	
Softlon NF	3.0	33	-0.5	-1.0	-2.4	-	
Softlon SP	3.0	40	-	-	-0.6	-1.4	

*Test Method : JIS K 6767

Data are only references ; they are not guaranteed values.

Softlon FR-ND

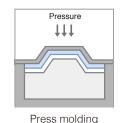
This meets flame retardant standards for the Japanese market

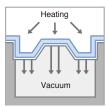
- UL standard UL94 HBF HF-1 (Home appliances / IT devices)
- A combustion test of materials for railroad cars

THERMOBREAK[®]-RT **THERMOBREAK**

This meets flame retardant standards for the global market

- BS 476 parts 6 & 7 (British Standard)
- AS 1530.3 (Australian Building Code Standard)
- ASTM E84 (25/50) (United States)
- FM Approved (Thermobreak Tube)





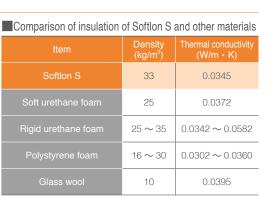
Vacuum forming





Underwriten

Laboratorie



*Compared with Sekisui's products. Data are only references ; they are not guaranteed values.

Softlon is made of polyolefin, which achieves low thermal conductivity and high insulation. In addition, since it has a closed-cell structure, it absorbs little water and its insulation performance is hardly degraded by moisture. It is also used in a wide variety of fields as an energysaving material with a function of keeping something warm and cool.



Insulation materials for corrugated metal roofs with superior insulation and workability, which are used to make many construction sites.

Insulation material for corrugated metal roofs SoftIon® SK

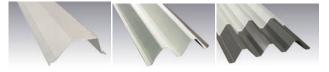
This is so elastic that it can be flexibly attached to any roof shapes with either adhesive or heat. Using it makes it possible to build a pleasant working place with a well-insulated and elaborate roof. It also has other functions of preventing water condensation and the deterioration of metal roof materials.

Specifications >>>

Features >>>



Roof of a factory



Comparison of properties of insulating materials Water (ka/m³ 0.0374 | Excellent | Excellent 25

Expanded polystyrene foam	15	0.036	OK	OK
Soft polyurethane foam	25	0.037	Poor	Poor
Cemented excelsior board	700	0.151	OK	Poor
Gypsum board	860	0.114	Poor	Good
Colored steel plate	7800	44		

Specifications of Softlon SK (SK-4G)

Adhesive grade	Attachable with adhesive or heat								
Width (mm)	540.690.870								
Thickness (mm)	4								
Length of a rolled Softlon(m)	200								
Color	White, Gray, Beige								

If you want Softlon out of the specifications, please consult with us. * Adhesive-type Softlon which meets cold-area specifications is available.



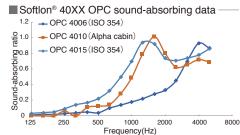
A new generation of open cell polyolefin material Open cell physically crosslinked polyolefin foam Softlon® OP



This newly-produced material has great flexibility and sound absorbency while maintaining excellent properties of conventional physically crosslinked polyolefin foam.

Features >>>

Softlon OPC is a physically crosslinked polyolefin foam with a open cell structure. Compared with our conventional Softlon, it is a more flexible, softer and greater sound-absorbing foam with low resilience while keeping the conventional crosslinked polyolefin foam's advantages of having excellent heat resistance, low water absorption and other great functions. It responds to cases where diverse functions are simultaneously needed, such as a combined use of thermal insulation performance and sound absorbency or those of thermal insulation performance and shock absorbency.



Line up $\rangle\rangle\rangle$



Specifications >>>

Physical properties						
Item		Test method	3000OPC	4000OPC		
Expansion rate (cc/g	ır)	Sekisui unique method	30 times	40 times		
Density (kg/m ³)		Sekisui unique method	33	25		
Tensile strength (kgf/c	:m²)	JIS K 6767	MD/3.8 TD/2.1	MD/3.3 TD/1.7		
Elongation (%)		JIS K 6767	MD/190 TD/160	MD/130 TD/110		
Tear resistance (kg/c		JIS K 6767	MD/2.2 TD/1.5	MD/1.8 TD/1.0		
	25% compression		0.07	0.01		
Compressive strength (kg/m²)	50% compression	Sekisui- unique method	0.26	0.02		
(Kg/III-)	70% compression	method	0.92	0.05		
Permanent distortion rate by compression (%)	25% compression	JIS K 6767	2.2	3.1		
Shape change by heat /70°	C,22h (%)	JIS K 6767	MD/-0.75 TD/-1.71	MD/-0.68 TD/-2.63		
Noise reduction rate	6mm thick	ISO 354	0.10	0.15		
	15mm thick	150 554	—	0.45		



Features >>

A thin and flexible product Thin cross-linked polyolefin foam

This product achieves thinness and great flexibility, which was impossible for conventional foam materials. And it is so strong that it can stand pressure applied when stretched and prevent delamination when pulled in the direction of its thickness. Thanks to these features, it is used as a tape base material and a sealant in many fields. Usage:For construction



Use to secure a mirror

(as a tape for securing building material panels, sealant for building materials, a joint filler and others.)

Specifications >>>



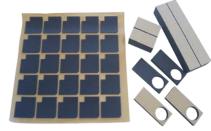
Item		IF(Black)		
Cell structure		Closed		
Apparent density (F	(g/m ³)	1.25		
Thickness (mn	0.8			
Tensile strength	Longitudinally	2.548		
(kPa)	Laterally	1.960		
Elongation	Longitudinally	400		
(%)	Laterally	450		
	25%	127		
Compressive strength (kPa)	50%	254		
	-			
Compression set	(%)	2.3		

Tape base for adhesive application



We always have various functional form products that meet the needs of many industries. Cross-linked polyolefin foam Fabricated Softlon \mathbb{R} (Example in construction)

The highly expanded polyethylene foam "Softlon" ,which is produced using Sekisui's unique technology, demonstrates various functions including great insulation, thermal resistance, high strength and drug resistance. With these functions, it is used in a wide range of fields including the construction, engineering, automotive, packaging/physical distribution, sports, general merchandise, and medicine.



Proper size and shape

It can be produced as materials for use in coating with adhesive or tape, press working and grooving.

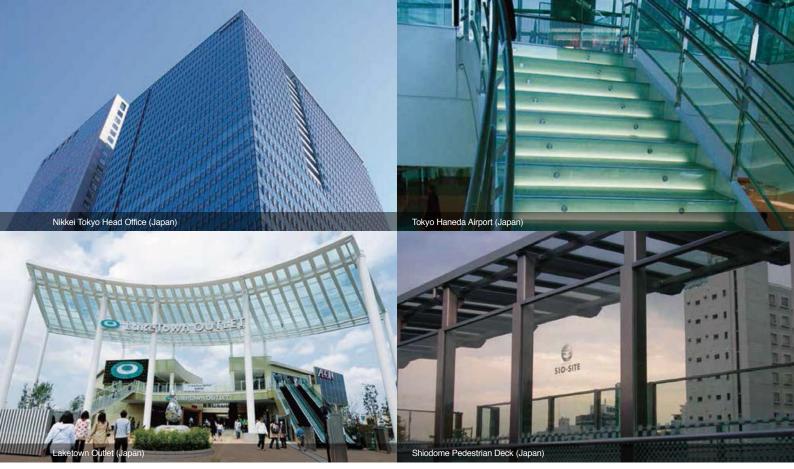


Easy-to-use in construction sites !

• Non-liner Softlon Tape This tape does not have a separator so that it can save a lot of time and effort and keep the workplace clean.



Various shapes and sizes are available to meet customer needs. We will deliver the customized/fabricated Softlon.





The S-LEC[™] Film is an interlayer one that offers a variety of properties when included in architectural laminated glass. S-LEC[™] Film

Architectural interlayer film

The S-LEC[™] Film meets the contemporary architectural trend of using glass extensively.Furthermore, the interlayer film brand is receiving attention for proposing more open and safer uses of space as well as architectural designs with improved aesthetic properties.



Basic function of providing safety, security and cutting UV rays.

S-LECTM Clear Film Standard interlayer film

Enter the comfort zone

Features >>>

Laminated glass using S-LEC[™] Film absorbs impact, prevents penetration, and stop shattering.

Shot bag test



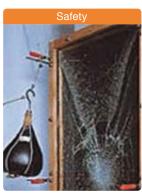
1.Sheet glass(5mm) Very dangerous because of the sharp glass fragments.



2.Tempered glass(5mm) Shattered, and penetrated by the object.



3.Wire-reinforced glass(6.8mm) The wires were cut, and penetrated by the object.



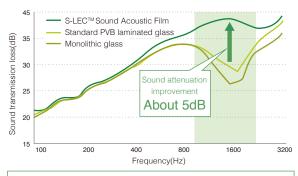
4.Laminated glass with S-LEC™ Film Neither shattered nor penetrated.



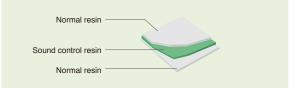
In humans, most audible sounds range from 1,000 to 4,000Hz. The Sound Acoustic Film improves the sound insulation effect by 5dB compared with standard interlayer films.

S-LEC[™] Sound Acoustic Film sound insulation interlayer film is achieved by the three-layer extrusion technology that produces a film consisting of a sound insulation layer (core layer) and two layers of standard interlayer film (external layers) that sandwich the core layer. With this technology, the sound insulation performance of the film is improved while it also maintains the basic performance of standard interlayer films.

Sound Shielding performance comparison



The greater the sound transmission loss, the better the shielding



Example >>>



lidabashi First Tower(Japan)



Kashiwazaki City Office (Japan) *Renovation project



London, Heathrow Airport (UK)



The British Museum (UK)

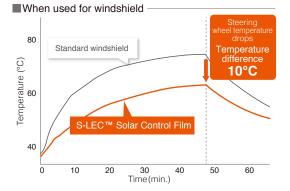


Enter the comfort zone

s-lec

While traditional interlayer film filters out more than 99% of ultraviolet rays, most of the infrared rays had penetrated across the film. S-LEC[™] Solar Control Film substantially cuts ultraviolet rays as well as mid-infrared rays of 1,300 to 2,100 nm in wavelength-the primary cause of the heat from the sun that results in a burning sensation on the skin.





UV Visible ligh Blocks mid-infrared Reduces burning 100 better heat blocking sensation T on skin : LEC™ Solar Control Film Type H)/Clear glass (%) Standard PVB/ Transmittance Clear glass 50 Standard PVB/ Green glass S-LEC™ Solar Control Film (Type H)/Green glass 0 300 800 1300 1800 Wavelength (nm)

Fine particles with infrared ray filtering function distributed in interlayer film

Solar control fine particles are distributed in standard layers using SEKISUI's own fine particle dispersion technology, which allows fine particles and materials with a variety of functions to be distributed evenly in an interlayer film resin. This has made possible a significant reduction of not only ultraviolet rays but also infrared rays which result in a burning sensation of the skin.

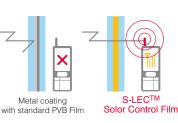
Substantially cut ultraviolet rays harmful to the skin and products

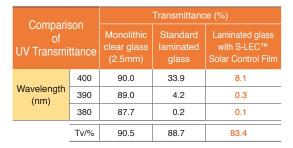
S-LEC[™] Solar Control Film has further enhanced the UV filtering performance that is one of the basic properties of standard interlayer films. As evident in the graph, the film substantially cuts the harmful ultraviolet rays that enter a room. Solar Control Film protects customers' skin from suntans at bright cafés and prevents discoloration and changes in color of important products displayed in shop windows. It is also optimal for art and other museums and is effective for reducing the flying of insects into display items.

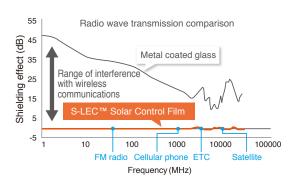


Heat, no. Radio, yes.

Traditional heat-reflecting glass with a metallic coating reflects radio waves, as well as heat, and could impede mobile phones. S-LEC[™] Solar Control Film does not block radio waves across most frequency bands.







Example >>>



Hotel New Otani Tokyo(Japan)

Naha Golf Club(Japan)

Seven Eleven, Tokyo (Japan)

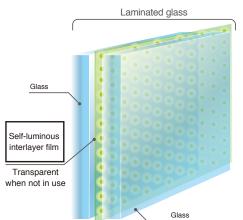


This self-luminous interlayer film for laminated glass creates an attractive space !

TALKING LIGHTTM (In Development)

Various space designs can be realized by making transparent glass emit light !

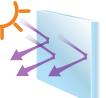
- The transparent glass (*1) laminated with the film remains transparent.
- Two luminous colors Green and Blue- are available. Red color is scheduled to be released.
- TALKING LIGHT with heat insulation is also available.
 *1 Note that the visible light transmission of the glass is over 70%, which is applied to window shields.



Features >>>

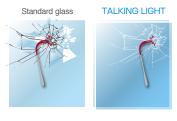
UV-blocking effect

Blocks 99% of UV rays, which shows the same effect of some UV protection cream or arm cover.



Safety/ Crime prevention measures

If the glass laminated with the film should be broken, it will not easily go into pieces.



SEKISUT TALKINGLIGHT

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The contents on a PC can be clearly projected on the the glass with a special projector.

- The image projected on one side of the glass laminated with the film is not displayed on the other side.
- TALKING LIGHT itself emits light, which makes it possible to create a clear and vivid display.

* A new model of a dedicated projector is scheduled to change its size.

Use it with a LED light to decorate a space



This film blocks the passage of light of a specific wavelength sent from a special

projector to the glass.

No

damage

to eyes

Image >>>

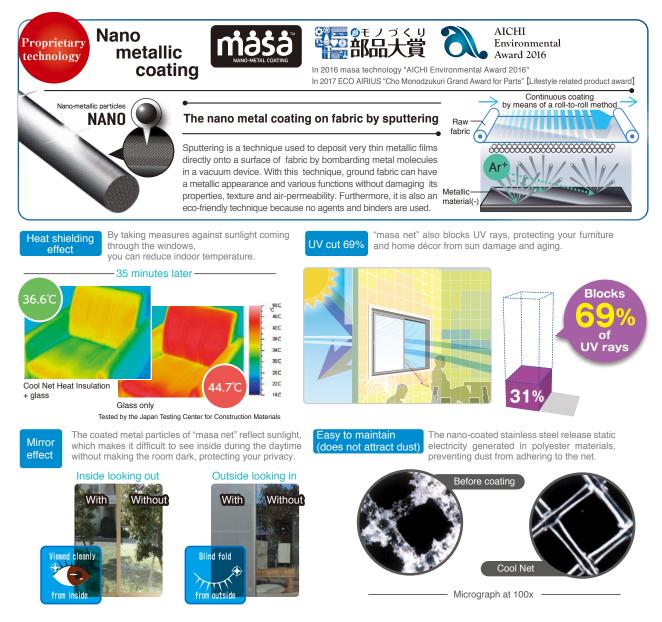






"masa technology" the nano metal coating on fabric The world's only technology of Sekisui Nano Coat Technology Co., Ltd. Multi-functional heat-shielding net series

"masa technology" is a technology of applying a sophisticated metallic coating to surfaces of woven and non-woven fabrics and knitted goods at the nano level. Sekisui Nano Coat Technology Co., Ltd. was the first in the world to develop the nano-level metallic coating to fabric in 1975, and is now working hard towards producing higherquality fabric with the nano metal coating technology.



"masa net" made with our nano technology. Just attaching the net to a window creates comfortable space.

A series of heat-shielding nets attachable to windows

Easy installation with a hook and loop fastener

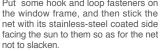
mášá Cool Net 🌐 Heat Insulation

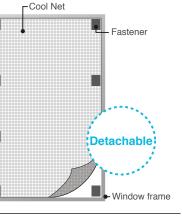
Cut the net to the proper size and put it on the window frame

The scorching summer sunlight can be shielded.

> Highly heat-shielding net for windows and aluminum window frames

Put some hook and loop fasteners on





Just putting the net frame on a window can generate heat-shielding and mirror effects.





This made-to-measure net frame matches a variety of sizes in windows ! "masa net" produced by the nano technology + A window frame + Magnets



Silver (SL) Magnets for the window

(with double-faced tape) Material aluminum foil Champagne Gold

masa net

Magnets for the frame

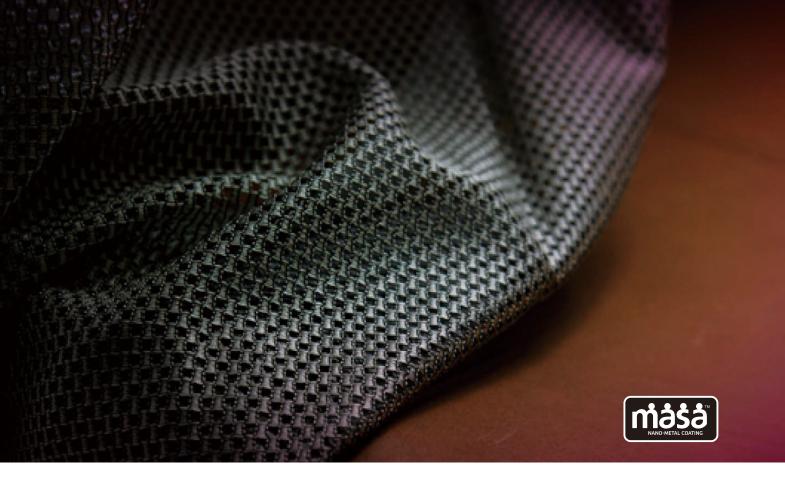
Straight frame

Corner frame

Material aluminum foil

A new-type window screen serving as a blindfold with an heat insulating effect







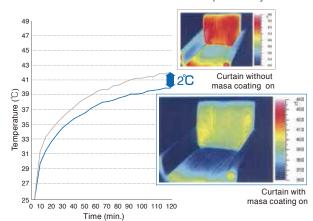
The finest quality curtain featuring a combination of beautiful designs and functional beauty (Nano metal coating)

A heat shielding curtain TESORO

"TESORO" is an interior fabric which combines traditional, sophisticated designs and innovative functional beauty. By using our own "masa coating" technology, it's greater functionality and more subdued shades of color than ever before has been realized while a good texture of fabric remains as it is. "TESORO"- the very curtain which enjoy a harmony of traditional, beautiful designs and the cutting-edge technology.

With the curtain, an air conditioner can work more efficiently, which contributes to saving electricity and realizes ecological lifestyle.

Comparison chart of temperature changes — The stainless steel using in "TESORO" absorbs infrared energy, which shields heat from the outside of the room. The results of the 120-minute heat-shielding test showed that the test TESORO could reduce the room temperature by about 2°C.



[Test method]

Infrared light was applied on two thick curtains, one with the masa coating on and the other without it on. The results shown in the above graph were the temperatures on the surfaces of the chairs. Note: The test curtain was TC-01 masa PAOLA of TESORO. Mirror effect

(Comparisons of invisibility from the outside of the room)

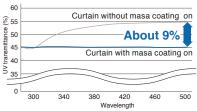
The fabric with the masa coating on has a mirror effect, preventing someone from peeping from the exterior.



Curtain with masa coating on Curtain without masa coating on

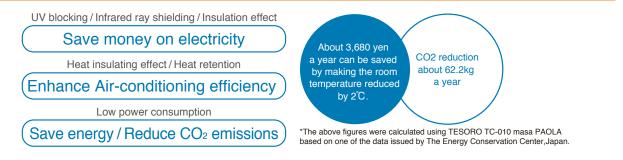
Comparison chart of the UV blocking rate

TESORO (TC-010 masa PAOLA) maintains low UV transmittance, preventing discoloration of furniture and tatami mats (or straw ones). (according to Sekisui's investigation)

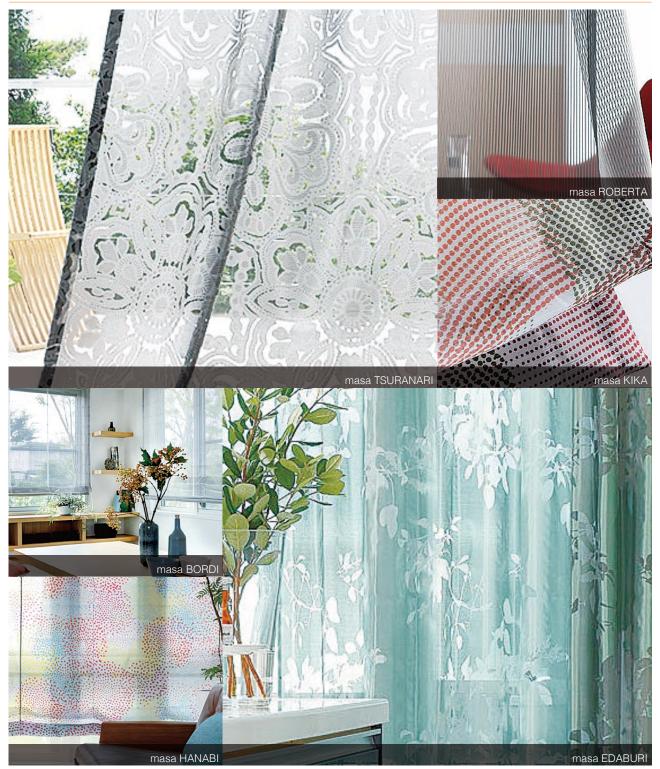


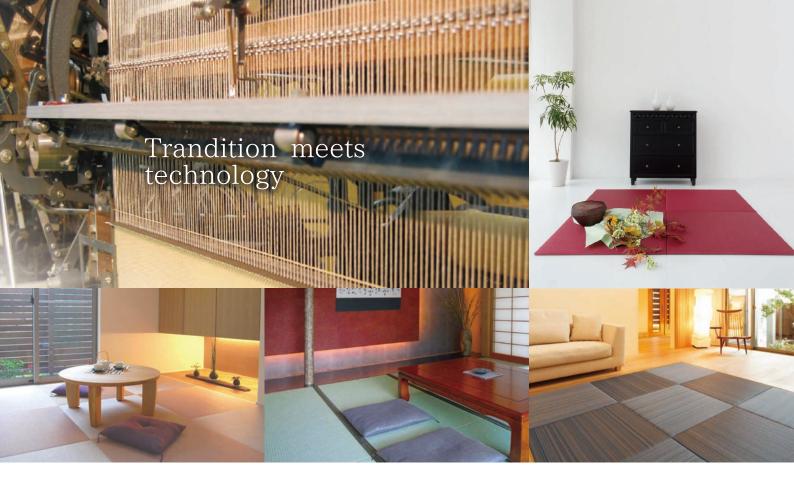
The test curtain was TC-01 masa PAOLA of TESORO

Features >>>



Collection >>>





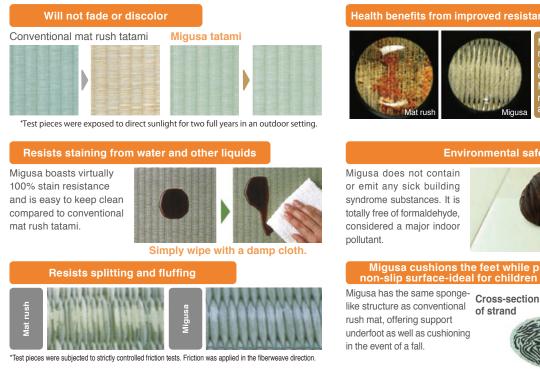


Migusa is a new type of tatami developed by Sekisui that delivers modern-day functional performance while retaining the authentic texture and feel of all-natural mat rush.

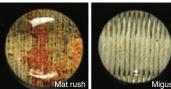
Highly functional tatami MIGUSA

Migusa is a unique product made from traditional mat rush together with a specially developed plastic containing inorganic material. The mat rush delivers the authentic texture and feel of tatami matting while the plastic component enhances durability, improves product safety and allows greater flexibility of design and color schemes.

Features >>>



Health benefits from improved resistance to mold and mites



Mold began to appear on the mat rush test piece after ten days and had covered the entire surface within 28days. Meanwhile, Migusa showed no evidence of mold even offective method after three months

Environmental safety

or emit any sick building syndrome substances. It is totally free of formaldehyde, considered a major indoor



Migusa cushions the feet while providing a sturdy non-slip surface-ideal for children and elderly people

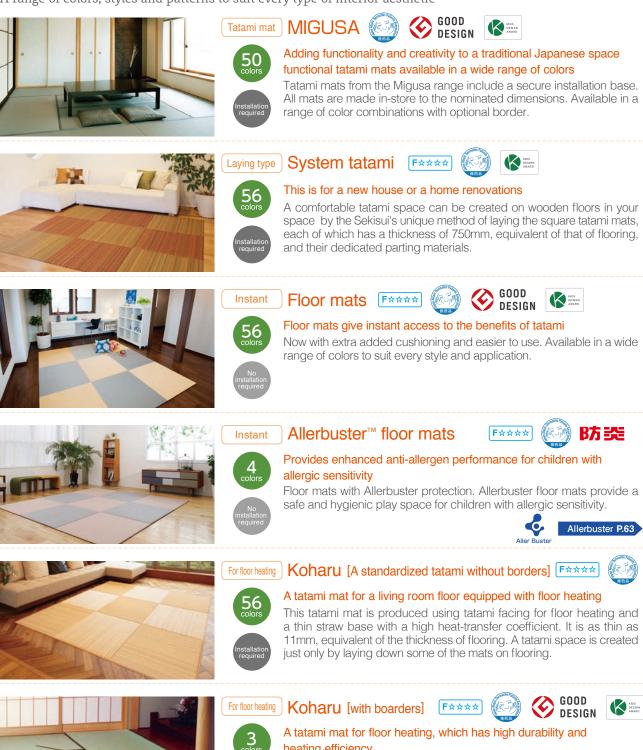
like structure as conventional of strand rush mat, offering support underfoot as well as cushioning

Air pockets provide cushioning



Line up >>>

A range of colors, styles and patterns to suit every type of interior aesthetic









Tatami rollImage: Solution of the second second

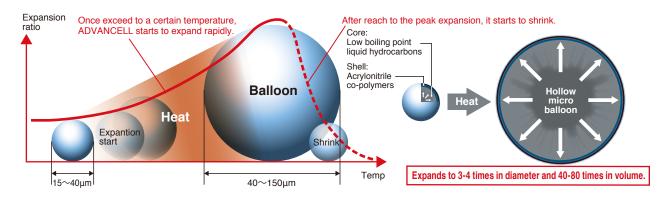
Portable roll-out tatami sheets are perfect for creating an instant Japanese space in a hall, gymnasium or other meeting space. After use the sheets roll up into a compact and lightweight package that is easy to carry.



Thermo-expandable microspheres which generates uniform cells. Adding it with materials such as resin, elastomer and ink makes it possible to achieve various properties (weight reduction, insulation from heat, etc.)

Thermo-expandable ADVANCELL® EM

ADVANCELL EM is thermo-expandable microsphere with thermoplastic cell containing low boiling point liquid hydrocarbon. When heated, ADVANCELL EM microspheres expands greatly in size; the heat boils hydrocarbon while softens the thermoplastic shell and expands the shell. Because it is hollow balloon, it creates closed cell structure. By selecting the appropriate grade, you can optimize the expansion starting temperature or degree of expansion.



Features >>>

ADVANCELL EM brings higher quality products (vs. Chemical foaming agent) Compared with chemical foaming agents (ADCA), ADVANCELL EM has the following advantages because of shells.

- Makes the surface of a molded product flat thanks to its uniform and tiny cells.
- Generates cells even when used in a low-viscosity composite.
- With Sekisui's unique technology, a particle size distribution curve is sharp, which means that ADVANCELL EM can produce cells of almost the same size.



Compared with other conventional products of the same type as ADVANCELL EM, it can generate uniform cells, a sharper curve being shown in its size distribution data.

Unlike some other thermo-expandable foam agents, ADVANCELL EM is produced using the Sekisui's own patented technology of dispersing particles, which can create cells of almost the same size. It expands to make cells of almost the same size so that it can bring about beautiful finishing. Using this product, in addition, enables the user to easily control processing temperatures partly because it starts to expand at a certain temperature and partly because the amount of heat necessary to create uniform cells is fixed.

Purpose >>>

- Housing materials (wallpaper, flooring material, synthetic wood, paint, putty, sealing material, lightweight clay, etc.)
- Automobile parts (exterior parts and interior parts such as a door panel, coating, adhesive)
- Daily goods (shoe soles, synthetic leather, foaming ink, cork, etc.)





Other materials

Environmentally friendly water soluble film with superior chemical resistance

Water-soluble film ADVASOL

ADVASOL is a water-soluble film with high chemical resistance, which is produced by Sekisui's compounding technology using Sekisui's original polyvinyl alcohol resin. Not only can it make chemicals which requires special handling easy to use, but also it can reduce the amount of packaging materials to be wasted. And what is more, it is expected to be widely used as materials for packaging disinfectants, agricultural chemicals and pharmaceuticals in the new packaging market.



Features >>>

- Environmentally friendly and leaves no eco-toxic residues .
- Can be used to package concentrated liquids and chemical powders without compromising user safety.
- Delivers superior chemical resistance to acids, basic compound and borates etc. and lasts longer than standard PVOH film.

Purpose >>>



Packaging a range of chemicals used in pools and spas, including chlorine and bromine etc.



Packaging house hold detergents, bleaches, etc.



Packaging industrial chemicals, such as disinfectants, antiseptics microorganism - controlling agent.



Packaging agricultural chemicals, including herbicide sand pesticides etc.

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Specifications >>>

Item	Chemical resistance	Walter solubility (normal temperature)	Walter solubility (low temperature)	Application(examples)	
Highly chemical-resistant type:XHC	Excellent	Good	OK	Chlorine disinfectants etc.	
Rapidly soluble type: STR, SDH	Good	Excellent	Excellent	Agrochemical, cleaners	
General purpose type: SMD, SMT	OK	Good	Good	Detergents etc.	

Cushioning materials



G-Polstar

A thermosetting resin dedicated to reduce vibration and soften a shock by converting vibration energy generated by shock into thermal energy.

Features >>>

- Great thermal resistance Excellent in compression set
- Various degrees of hardness and high to low damping properties
- No environmentally hazardous substances (RoHS compliant)
- No substances which can cause a loose connection, such as low molecular siloxane and sulfur
- A flame-retardant product satisfying UL-94 standard

EXAGEL

Thermoplastic elastomer dedicated to reduce vibration and lessen a shock .

Entrance door

The impact of a drop is converted into thermal energy.



It is widely used for things which need great shock resistance, such as optical disk devices, audiovisual equipment and onboard equipment.



For microphones

Softens



For optical disk devices



For HDDs



Features >>> Highly flexible material

- No substances which can cause a loose connection, such as low molecular siloxane and sulfur
- No environmentally hazardous substances (RoHS compliant)
- No halogen compounds including chlorine and bromine, red phosphorus and antimony
- A flame-retardant product satisfying UL-94 standard

We recommend that you use the newest cushioning product -EXAGEL- as building materials.

Shutter of a garage







Pantel GEL

A damping material made of low-hardness and highly strong silicone gel, which can fill a gap. it is excellent in waterproof and resistance to dust and shock. It also produces inserted-molded products using general-purpose resins, metals and films.

Insert-molded

dispenser

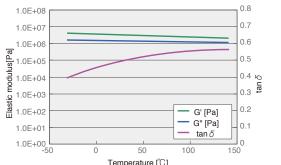








Property >>>



Insert-molded plastic product

Insert-molded metal product

Features >>>

- The strength of adhesion between Pantel GEL and a resin or a metal is greater than that of their adhesive failure
- It can realize composite molding, which makes it possible to reduce assembly processes
- Using the gel product can soften impacts and absorb a dimensional tolerance
- It is little influenced by temperature changes ranging from -20°C to 120°C



Hybrid Damper

A viscous fluid-filled damper is generally called as a oil damper, which has high damping property. * It serves as a dashboard.

Features >>>

- High damping property thanks to its sealed viscous fluid: The damper has high damping property and wide damping frequency, which rubber dampers with no fluid sealed cannot realize
- Its performance is maintained even though it is affected by vibration or temperature changes, and it is strong resistance to breakage: There are many cars equipped with the damper as an interior part, to which needs to bear the heavy load applied
- Highly customizable because its rigid lid can be freely designed: Various shapes of a rigid lid can be designed for customers' needs

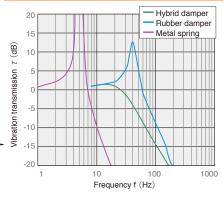








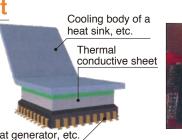
Property>>>



Silicone Thermal Conductive Sheet

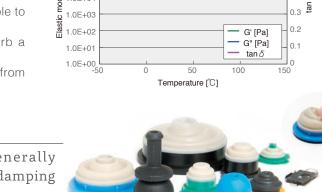
Silicone thermal conductive sheets feature high thermal conductivity with no loss of the outstanding heat resistance and electrical insulation properties of the base material, silicone, realized by contouring to heating elements utilizing the exibility and adhesion of the sheet.

%The low-molecular siloxane content that causes problems such as contact faults in electronic devices is no more than 70ppm, making it possible to use the product near contact points in devices such as switches.





IC heat generator, etc.





Why don't you have your products treated with Allerbuster? We are pleased to help you develop products free from allergen.



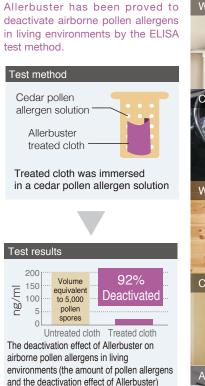
Allerbuster has been proven to reduce pollen allergens by more than 90% Allergens can be inactivated when adhering to the product treated with Allerbuster !

Anti-allergen agent AllerbusterTM

Allerbuster is a polymer-based anti-allergen agent. Allerbuster chemically bound to the surface of processed products envelops allergens, such as pollen, dust mite droppings and their dead bodies, effectively controlling allergen action levels.



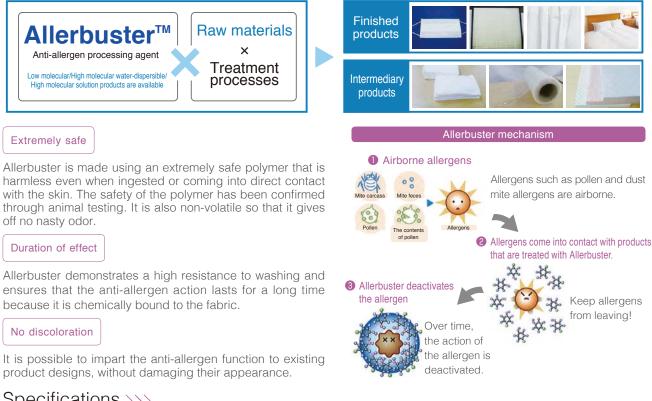
The effect of Allerbuster was demonstrated when the allergens came into contact with it.





Features >>>

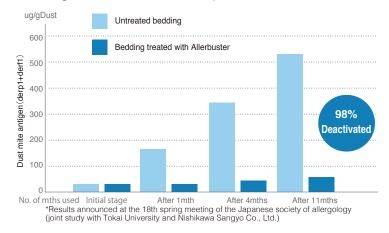
Sekisui provides a range of finished and intermediate products through various combinations of raw materials and treatment processes.



Specifications >>>

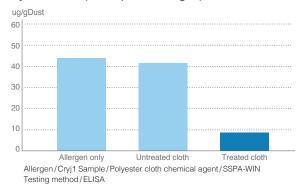
Allerbuster anti-allergens performance

Monitoring test for Allerbuster-treated products

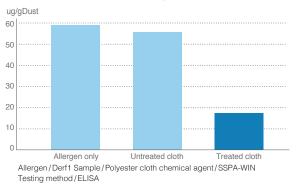




Polyester cloth (cedar pollen allergen)



Polyester cloth (dust mite allergen)







This product absorbs viruses and prevents spread of them !

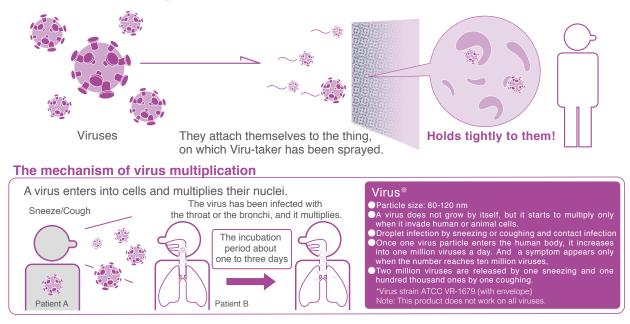
Antivirus processing agent Viru-taker

"The daily necessities and interior materials for housing, to which this product is sprayed, can quickly absorb viruses and prevent them from spreading.

Mechanism >>>

Catches viruses quickly and holds on tightly to them !

A polymer with ionic groups similar to neuraminic acid catches viruses, which prevents host cells from binding to the surface of their acceptors.



Specifications >>>

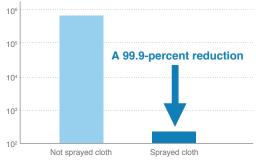
A high level of safety

Acute oral toxicity/ Skin irritation / Mutagenicity test *1- Examining body:Japan food research laboratories

*2- Examining body: Chemicals evaluation and research institute, japan

Antivirus performance

Antivirus performance test using the sprayed cloth





Test site

Vote: •This antiviral finished products does not inhibit the function of virus. •Virus strain ATCC VR-1679 (with envelope) •This product does not work on all viruses.

Example >>>

It can be widely used in places where many people gather, such as hospitals, schools and amusement parks.





A new type of virus removal product born out of "Viru-taker™" This is an aerosol spray which provides the double effects of disinfection and virus removal. NOWCARF

Virus removing and disinfectant spray

"NOWCARE" is a brand name of one of the self-care products made by the Sekisui Material Solutions Co., Ltd. Just spraying it can make everywhere, including a workplace and a house clean. *Enveloped viruses

Just by spraying it on what you are going to touch, bacteria and viruses can be blocked !

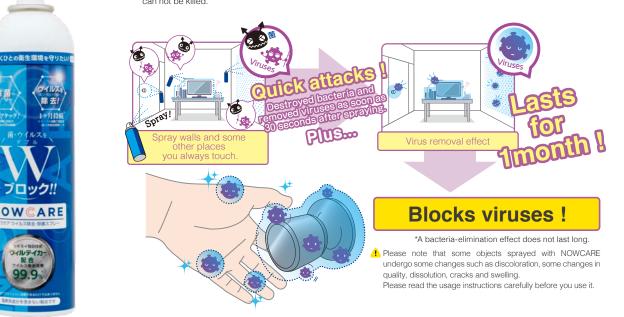


Mechanism >>>

The product made from a blend of some ingredients of "Viru-taker" developed with Sekisui's unique technology

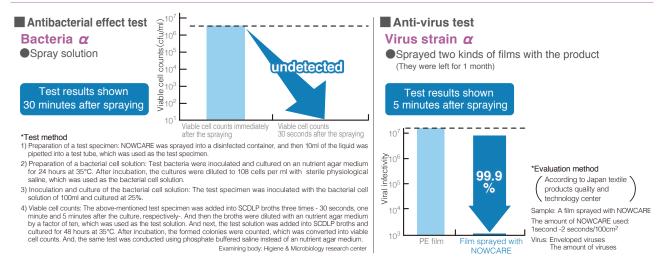
*All bacteria and viruses can not be killed.

Polymer with ionic groups similar to neuraminic acid catches viruses to prevent them from bonding to the host cell surface.





Specifications >>>





A product which decomposes and deodorizes odors and bad smells coming from organic materials and that can retain odorless conditions! Neither a deodorant nor an air freshener.... This is a natural mineral mist that purifies air. Natural mineral mist NANOTO TM

Use "NANOTOTALE™" to get rid of bad smells of fabrics which can not be washed so often or odors of things which have been left even after cleaning on a daily basis. It keeps the living space comfortable. The main components are minerals extracted from rocks accumulated from ancient times. (*It is made in Japan.)

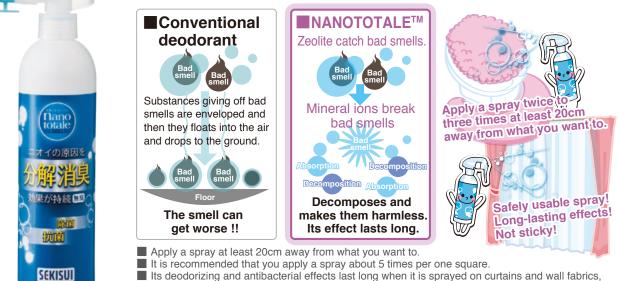
Use it to deodorize things which remains bad smells even after cleaning or which cannot be washed frequently.

Mechanism >>> Wonderful mineral !

lano totale

This is neither a deodorant nor an aromatic. Using the minerals, extracted by a special method, continuously provides two functions - ion exchange (bonding) and catalysis (decomposition) - .

The natural mineral mist decomposes and deodorizes unpleasant smells and organic materials to purify the air.



Its deodorizing and antibacterial effects last long when it is sprayed on curtains and wall fabrics, to which mineral ions are easily attached.

Line up >>>

Air conditioning

sprav



Specifications >>>

decomposition of the source of odors

In a test conducted by a third-party institute, the fabric samples, on which NANOTOTALE was sprayed and then were dried out naturally for about 1 week, were used to collect the data.





Scan the QR code for more detail.



Double-faced Adhesive Tape

Double-faced tape for non-woven fabrics and film base materials

Product name	Composition	Base material	Number of	Sta	andard s	ize	Color	Initial	Adhesion	JIS holding	Feature	Application
FIOUUCLITATI	Comp	Adhesive	release liners	Thickness (mm)	Width (mm)	Length (m)	000	adhesion	(N/25mm)	(mm)	reature	Application
Double-faced Tape 570E	Nor	fabrics	1	0.12	10~ 1,200	20/50	Translucence	Good	18.3	0.2	Strong adhesion, weather resistance	Office supplies, stationery and others
Double-faced Tape	Nor	Acrylic -woven fabric fabrics	1		10~	20/50				0.3	Strong adhesion,	For securing an aluminum
575F		Acrylic		0.16	1,200	20/50	Translucence	Good	22.1	0.3	weather resistance	nameplate and others
Double-faced Tape 5753E	Nor	i-woven fabric fabrics Acrvlic	1	0.2	1,200	20/50	Translucence	Good	20.4	0.4	Strong adhesion, weather resistance, rough surface bonding properties	For securing foamed rubber and others
Double-faced Tape	Nor	n-woven fabric fabrics	1	0.14	10~ 1.000	20/50	Translucence	Good	18.1	0.3	Strong adhesion,	For securing cushioning materials, sealing and others
575E	Nor	Acrylic			1,000						weather resistance	materials, sealing and others
Double-faced Tape 5782		fabrics Acrylic	1	0.13	10~ 1,000	20/50	Translucence	Good	18.6	*0.2	Strong adhesion to urethane foam products, excellent repelling resistance	For adhering to urethane foam
Double-faced Tape 5782LSV	Nor	n-woven fabric fabrics	1	0.135	10~ 1,000	50	Translucence	Good	18.6	0.5	Little odor, Ultra-low VOCs	For adhering to urethane foam
Double-faced Tape	Nor	Acrylic n-woven fabric fabrics	1	0.17	10~ 1.200	20/50	Translucence	Good	20.6	0.2	Strong base material	For securing flooring, for recycling
595TF	_	Acrylic			1,200							
Double-faced Tape 560	po	Acrylic	1	0.13	10~ 1,200	20/50	Transparency	Excellent	7.8	0.2	Strong base material, high re- releasability	Securing a rearview mirror and cushioning flooring
Double-faced Tape 577SA-L	Nor	Acrylic fabrics Acrylic	1	0.13	1,370	50	Translucence	Good	18.9	0.4	Resistance to plasticizer	For adhering to soft PVC materials

Double-faced tape for foaming base materials

Product name	Composition	Base material	Number of	Sta	andard s	ize	Color	Initial			Feature	Application
i iouuci name	Comp	Adhesive	release liners	Thickness (mm)	Width (mm)	Length		adhesion	(N/25mm)	power (mm)	reature	Αμριισατίστι
Double-faced Tape 518TF	<u>poly</u>	Special <u>rethylene foam</u> Acrylic	1	1.3	970	10/30	Black	Excellent	×20.3	0.4	Excellent rough surface bonding properties and strong	For securing interior or exterior car parts and fixing
Double-faced Tape 517TF	poly	Special ethylene foam Acrylic	1	0.9	970	10/30	Black	Excellent	*19.1	03	holding power, and attachable to various kinds of adherends	construction equipment
Double-faced Tape 532	poly	Special ethylene foam Acrylic	1	1.1	20/ 1040	10/30	White	Excellent	¥32.8	0.7	Initial adhesion and rough surface bonding properties	For tentatively fixing a building interior or exterior board
Double-faced Tape 533	po	olyethylene foam Acrylic	1	0.38	950	15/25	White	Excellent	×18.8	0.2	Strong holding power	For general-purpose adhesive
Double-faced Tape	poly	Special ethylene foam	535 1	1.1	1040	10	White	Good	*18.6		Excellent rough surface bonding properties and	For securing a hook hanger
535•536	Ru	bber-based	536 2		450	1		0000		0.2	strong holding power at room temperature	
Sponge Tape	Poly	urethane foam	2	2	450	1	Yellowish	Excellent	*26.5	1.0	High cushioning properties and	For securing a mirror of
2310		Acrylic	_	_	.50		gray				strong holding power	washstand and furniture

Position adjustable double-faced tape

Product name	osition	material	Color		Color	Color Initial		Shear adhesion	Feature	Application		
	Compo	Adhesive	liners	Thickness (mm)	Width (mm)	Length (m)		adnesion	(N/25mm)	(N/cm ²)		Application
Double-faced Tape 530	poly	Special rethylene foam Acrylic	1	0.8	950	10/20	White	Good	11.4	31.9	Repeatable use for positioning, excellent rough surface bonding properties, attachable to a rough surface	For securing flooring

Acrylic waterproof tape for building openings

Product name	osition	Base Num material or releating Adhesive line					Color	Initial	Adhesion	Ball tack	Feature	Application
	Comp	Adhesive	release liners	Thickness (mm)	Width (mm)	Length	00101	adhesion	(N/25mm)	(1/32")	reature	Αρρικαιιστ
Air-tight Waterproof Tape 747WT (double-faced tape)		PET cloth Acrylic	1	0.22	50/75/ 100	20	Black	Good	22	27/29	NYG-recommended tape	For making a joint or a connection part airtight and waterproof
Air-tight Waterproof Tape		PET cloth		0.16	50/75/	20	Black	Good	20.3	25	Easy to draw out the tape from a roll	For making a joint airtight
740 (single-faced tape)		Acrylic			100		White	0000	2010		and cut it by hand	and waterproof

Double-faced cloth tape

Product name		Base material	Number of			Color		Adhesion	Shear adhesion	Feature	Application	
Product name	Composition	Adhesive	release liners	Thickness (mm)	Width (mm)	Length (m)		adhesion	(N/25mm)	(N/cm ²)	reature	Application
Double-faced Tape 610	Ru	Fabric bber-based	1	0.55	50	15	Beige	Excellent	6.37	34.3	rough surface	For fixing a carpet, a mat and others, securing seal rubber for a door of a freezer
Double-faced Tape 615	Bu	Fabric Ityl rubber- based	1	1.0	30	15	Black	Excellent	22.0	44.1	Excellent rough surface bonding properties, high resistance to water and weather	For tentatively fixing building materials, sealing a joint on a corrugated metal roof

Double-faced structural tape

Product name	Composition	Base material	Sta	andard si	ze	Color	T peeling	Shear adhesion	Tensile adhesion	Heat resistance	Feature	Application
r roudet name	Comp	Adhesive	Thickness (mm)	Width (mm)	Length (m)		resistance (N/cm)	(N/cm ²)	(N/cm ²)	(°C)	i cature	Αμριισατίστι
Double-faced Tape 5101A	Sp	ecial acrylic Acrylic	1.1		20	White	35	100	100	200	High resistance to	For assembling parts of a door or an exterior material
Double-faced Tape	Sp	ecial acrylic	0.3	-	40	White	10	140	120	200	weather and heat, A well-finished connection and	For securing housing or building interior and exterior
5102A		Acrylic		Apporx. 10-500mm		white	10	140	120	200	flexible part can be realized.	materials For securing car interior or
Double-faced Tape 5104A	Sp	ecial acrylic	0.5	(1mm increment)		White	20	120	100		(Note:5101A and 5106A have	exterior materials For securing assembled
	Sn	Acrylic ecial acrylic		-							excellent rough surface bonding	metal parts and others
Double-faced Tape 5106A		Acrylic	0.7		30	White	25	110	100	200	properties.)	For setting up a sign and assembling household goods
SEKISUI SJ		Acrylic	0.6	20/24/25/ 30/50/100	40	-	18	100	_	_	A construction period can be cut without using adhesive	For renewing housing or building wall materials

$\bigcirc \bigcirc$

Building & Construction Masking Tape

Product name	Composition	Base material	Standard size			Color	Adhesion	Tensile adhesion	Elongation	Feature	Application
i roudet name	Comp	Adhesive	Thickness (mm)	Width (mm)	Length (m)	00101	(N/cm)	(N/cm)	(%)	. culture	, pp. reduction
Paper Masking Tape	Japanese paper		0.095	12/15/18/20/ 24/30/36/40/	18	White	1.90	40.0	2.9	High resistance to solvents/ Not easy to peel off in the	A masking tape for painting general
653N	Ru	bber-based		50/60/80					2.0	process of painting /A residual adhesive is hardly left.	buildings
Paper Masking Tape	Jap	anese paper	0.1	12/15/18/20/	18	E.	1.00	41.2	3.2	A coating line can be	A masking tape for
655N	Ru	bber-based	0.1	24/30/40/50	18	Blue	1.60	41.2	3.2	well finished./It can be smoothly removed	sealing
Mask Light Tape	Po	lyolefin fabric	0.13	25/38/50/	25	Green、 Blue、 Translucence	2.3	52.9	13	This is made of a resilient material so that it can be	For tentatively fixing materials requiring for
730		Acrylic		75/100	23					smoothly drawn out from a roll and easily cut by hand	curing
Fit Light Tape		cled chromium- ntaining PET	0.11	25/38/50/75	25	Green、 Blue、 Translucence	2.2	40	25		For tentatively fixing
738		Acrylic	0.11		50						materials requiring for curing
Smart Cut Tape		PE	0.12	38/50	25	Orange	2.2	46	23	Film-type tape with smooth texture, which can be easily	For curing flooring
833		Acrylic	0.12	36/30	23	Oralige	2.2	40	23	cut by hand	
Spatt Light Tape		PET cloth	0.11	38/50/100	25	Green, Translucence	2.1	36	19	This tape can be cut well by hand	For tentatively fixing materials requiring for
733		Acrylic	0.11		50						curing
Fit Light Tape		PET cloth	0.12	50/75/100/150	25	Mango	3.3	40	30	A strong adhesive masking tape which is high resistant	
736 (strong adhesive)		Acrylic	0.12	30/13/100/130	20	Mango	3.5	40	30	to heat and hard to tear	uneven surface

1) Please avoid sticking the masking tapes to plain wood, otherwise, it could lead to environmental pollution.

2) Please use the tapes on a trial basis before use because a residual adhesive, discoloration or damage on the adhesive side may be seen on some adherend or some objects' surfaces to be painted.

Aluminum Tape

Product name	Iposition	Base material		Standard size		Color	Adhesion	Tensile adhesion	Elongation (%)	Feature	Application
Floudername	Comp	Adhesive	Thickness (mm)	Width (mm)	Length (m)	000	(N/cm)	(N/cm)	(%)	i eature	Application
Aluminium Tape 951		uminum foil - Polyester Acrylic	0.08	750	20/50	Silver	6.9	52.9	3	High mechanical strength and strong corrosion resistance	For making building materials and kitchens water- and dust- proof
Aluminium Tape 955	Alı	uminum foil Acrylic	0.07	950	20/50	Silver	6.73	32.3	4	High heat- and water- resistance	For protecting and repairing air- conditioning equipment or duct insulation materials, and making them electrically conductive

Note 1) Adhesion was measured by a 180°peel test in conformity with JIS Z 0237. (Adhesion of the items marked with a * was measured by a 90°peel test.) 2) A holding power test in conformity with JIS Z 0237 was conducted at a temperature of 40°C. (The holding power with a * mark was measured at a temperature of 80°C using a weight of 500g.)



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CPVC compound	Durastream ™	P.1
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