



Japan Invention Awards

®Molecule Gradient Layer Adhesive Tape

®Maycleangel

Liquid crystal polymer film



Industrial Adhesive Tapes PRODUCT GUIDE



Starting new value creation
KGK Chemical Corp.

Molecule Gradient Double Sided Adhesive Tape Strong Adhesive Force, Excellent followability

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
200 A 10	0.01	Low molecular acrylic adhesive layer Polymer special acrylic adhesive layer Low molecular acrylic adhesive layer Release liner	8	High adhesion force. Suitable for producing thinner products. Excellent heat resistance, curved-surface followability with holding power. Good die-cutting properties (no stringing or fluffing of the adhesive even in ultra-fine shapes). For component processes requiring adhesion, such as portional and bent part attachments. Fixing of nameplates, insulators, and difficult-to-bond materials (polymer PE, etc.).	1000	50	BTO, double release liner
200 A 30	0.03		10				
200 A 50	0.05		18		1200	50	BTO
300 A 80	0.08		20				
300 A 100	0.1		22				
200 A 30 B	0.03	Black low molecular acrylic adhesive layer Black polymer special acrylic adhesive layer Black low molecular acrylic adhesive layer Release liner	9	Black double sided tape with high performance of Molecule Gradient Membrane. For light shielding of digital cameras lens tube, areas around lens and LCD panels.	1200	50	BTO
200 A 50 B	0.05		15				

Waterproof, Chemical Resistance Molecule Gradient Double Sided Adhesive Tape Strong Adhesive Force, Waterproof and Chemical Resistance

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
300 Z 150 B/W/N	0.15	Low molecular acrylic adhesive layer Polymer special acrylic adhesive layer Low molecular acrylic adhesive layer Release liner	32	Because foam substrate is not used, there is no fear of water ingress caused by air bubbles and excellent in waterproofing. Applicable for not only metals but also various resins. For fixing parts and prevention of water ingress in mobile phones, digital cameras, etc. Characters at end of item number mean B for black, W for white, and N for transparent. Please contact us for thicknesses not listed in this guide.	1000	50	BTO
300 Z 200 B/W/N	0.2		36				
300 Z 250 B/W/N	0.25		39				
300 Z 300 B/W/N	0.3		44				
300 Z 400 B/W/N	0.4		45				
400 Z 150 B/W/N	0.15	Low molecular acrylic adhesive layer Polymer special acrylic adhesive layer Special enhanced substrate layer Low molecular acrylic adhesive layer Release liner	18				
400 Z 200 B/W/N	0.2		22				
400 Z 250 B/W/N	0.25		25				
400 Z 300 B/W/N	0.3		28				

Mechanical fiber double sided tape Strong Adhesive Force

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
201 MF 50	0.05	PET release liner Gel sheet PET release liner	18	No substrate used, yet excellent in punching processability. Adhesive layer with a structure similar to cross-linking. Flexible, yet has strong adhesive and good heat resistance.	1200	50	
201 MF 80	0.08		20				

Heat Resistance Molecule Gradient Double Sided Tape Excellent Heat Resistance

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
200 Y 12.5	0.0125	Low molecular acrylic adhesive layer Polymer special acrylic adhesive layer Low molecular acrylic adhesive layer Release liner	7 (11.5)	Double-sided adhesive tape that withstands in continuous high temperature load, yet can be laminated in room temperature. Capable of punching out fine shapes, which has been a weak point of conventional heat-resistant substrate-less tapes. Full or partial bonding of heat-resistant film, etc. For applications in spaces around motors.	1000	50	BTO, double release liner
200 Y 30	0.03		8.5 (15)				
200 Y 50	0.05		10 (22)		1000	50	

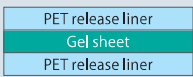
※ () = Heat and crimping

®Maycleangel Shock Absorption, Strong Adhesive Force

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
MGCS 50	0.5	PET release liner Gel sheet PET release liner	35	Acrylic gel sheet excellent in shock absorption, damping and water ingress. Cushioning material for the entire surface or frame of mobile displays and touch panel screens, etc. Available in thicknesses from 0.025mm to 1mm. Please contact us for details.	500	0.5	BTO
MGCS 100	1.0		40				
Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
21 MGCS 100	1.0	Release liner Gel sheet PET substrate layer Gel sheet Release liner	31	Thick PET-based double-sided adhesive tape, featuring PET backing for dimensional stability, strong adhesion and reworkability. Fixing of automotive, consumer electronics and display-related components for spacers and shock mitigation applications. Available in thicknesses from 0.025mm to 1mm. Please contact us for details.	500	0.5	BTO
21 MGCS 200	2.0		41				

®Maycleangel

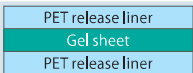
High transparency, Strong Adhesive Force

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Total light transmittance (Tt)	Features and Applications	Max. Width (mm)	Length (m)	Comments
MGSF 2.5	0.025		11	93 (99)% see Note1	Highly transparent acrylic gel sheet with 93% transmittance. It contributes to visibility and durability by filling buffer gap. Ideal as an adhesive sheet for bonding optical products and optical components. Made of materials that will not corrode metal films such as ITO, it is ideal for bonding touch panels.	500	100	BTO
MGSF 5	0.05		13					
MGSF 10	0.1		20					
MGSF 17.5	0.175		22				50	
MGSF 25	0.25		23					
MGSF 35	0.35		30					

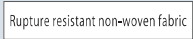





※Note1: The figure in the parentheses excludes interfacial reflection loss by calculation. Glass is used for *Maycleangel data, whereas SUS is used for data for other KGK products. Please contact us for details.

RENESAS Gel

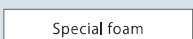
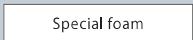
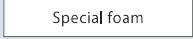



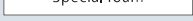
Double sided gel tape for rework

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
RSG 15	0.15		19	A double sided gel tape making rework easily possible. With KGK proprietary technology, it can be easily peeled off after applied to adherends, by simply pulling from the tip. Applicable for various needs.	500	100	BTO

Non-woven fabric base substrate double sided tape

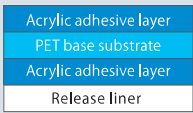
Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
205 ER <small>[Eco-friendly low-VOC product]</small>	0.14		15	For fixing recyclable materials for home appliances and OA machines, etc. Double-sided adhesive tape demonstrating highly reliable adhesive performance on a variety of adherends while easily removed cleanly without adhesive residue when dismantling parts. No VOC chemicals are used in the constituent materials.	1200	50	BTO
201	0.12		15	Widely applicable for fixing industrial materials. Well-balanced adhesiveness, heat resistance, and processability.	1000	50	BTO
201 V <small>[Eco-friendly low-VOC product]</small>	0.14		16	Low-VOC type standard double-coated adhesive tape with basic adhesive performance.	1200	50	
201 M	0.11		20	Excellent initial adhesiveness. Good adhesion at low temperatures. For laminating foam materials. Non-toluene type.	1200	50	
201 TH	0.13		21	Good adhesion to PP and other low polarity surfaces. For fixing metal or plastic rating plates.	1000	50	
207	0.25		14	For fixing on rough or uneven surfaces.	970	30	

Foam base substrate double sided tape

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
247200	0.2		20.5	Thin foam substrate double-sided tape. High adhesive strength. Small foam density gives excellent waterproof property. Used for fixing components and water sealing for smartphones and other mobile products.	1000	50	BTO
2400	0.75		25	Super strong adhesive type. Excellent in weather resistance and heat resistance. For fixing of protection covers for front doors and exterior goods. For fixing of signs and reinforcement materials.		11	
2403	0.45		25	Super strong adhesive type. Excellent in weather resistance and heat resistance. For fixing of protection covers for front doors and exterior goods. For fixing of signs and reinforcement materials.		33	
241 B	0.7		21	Excellent holding power. For fixing of automotive interior parts, materials for floors and aluminum sheets.		15	
241	0.7		19	Excellent holding power. For fixing of automotive interior parts, materials for floors and aluminum sheets. (Black color version of 241B)		15	
241 M	1.0		25	Excellent rough surface adhesion. Used in constructions where a glue is used at the same time, such as attaching wall panels in a kitchen. For general purpose fixation; rating plates, metal plates, plastic plates, flooring materials, etc.		10	
221 B	1.0		25	Excellent in reinforcing base materials. For fixing of interior parts for houses and buildings, such as base moldings, etc.		10	

High adhesive PET base substrate double sided tape

High Adhesion, Good Workability

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
400 P 10	0.01		6	Double-sided adhesive tape with both dimensional stability and strong adhesion with the presence of PET base substrate. Excellent die-cutting properties while avoiding glue residues. Good followability over curved surfaces. For fixing of LCD related materials, FPCs, smartphone exterior parts, rings, plastic nameplates, etc.	1200	50	BTO
400 P 30	0.03		10				
400 P 50	0.05		15				
400 P 80	0.08		20				
400 P 100	0.1		20				

Conductive Tape

High electrical conductivity

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Volume resistivity ($\Omega \cdot \text{cm}$)	Features and Applications	Max. Width (mm)	Length (m)	Comments
SWEC 60 C	0.06	Conductive acrylic adhesive Aluminum foil base material Conductive acrylic adhesive Separator	9	< 1	Double-sided adhesive tape with acrylic conductive adhesive on soft aluminum foil. Excellent initial adhesion and can be applied to curved surfaces. Excellent electrical conductivity with aluminum foil base material. Removes static electricity from smartphones and PCs, and shields FPCs from electromagnetic waves.	500	50	BTO

Electromagnetic wave shield tape

For protecting from electromagnetic interference

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
500 E	0.09	Aluminum foil substrate Acrylic adhesive layer Release liner	19	Adhesive type aluminum foil tape. For electromagnetic wave shielding and radiant cooling of refrigerators, etc.	1000	50	Available in glossy and matte finishes.
501 E							

Heat dissipation gel sheet 「Tathaga」

High Thermal conductivity

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Thermal conductivity (W / m·K)	Features and Applications	Max. Width (mm)	Length (m)	Comments
KBS 30	0.3	PET release liner Heat conductive acrylic adhesive layer PET release liner	5	1.3	Acrylic-based high thermal conductivity radiation gel sheet. It has high thermal conductivity due to the use of fillers with excellent filling properties. It has excellent adhesion, stress relaxation, and durability, and is suitable for heat dissipation and fixing of electronic devices.	500	20	BTO
KBS 50	0.5		10	1.3				
HTAG 30	0.3		5	3				
HTAG 50	0.5		8	3				

※Measuring method: GHP ASTM E 1530

Heat storage/Heat insulation gel sheet

Heat absorption, heat cushioning, heat equalization

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Melting point (°C)	Features and Applications	Max. Width (mm)	Length (m)	Comments
FREY 10	0.1	PET release liner Heat storage gel sheet PET release liner	5	40 °C (FREY)	Heat storage adhesive gel sheet based on acrylic resin. A gel sheet that can store heat at any temperature for a certain period of time and maintain the temperature. It is suitable for heat protection and fixing of electronic devices.	500	50	BTO
FREY 50	0.5		10				0.5	
FREY K 10	0.1		5	60 °C (FREY K)			50	
FREY K 50	0.5		10				0.5	

Heat resistance silicone adhesive tape

Heat absorption, heat cushioning, heat equalization

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
171	0.065	Polyimide film Silicone adhesive layer Release liner	0.1	High heat resistant silicone masking tape. Extremely low adhesive residue under high temperature and easy to re-peel. 171: Surface protection in high temperature (masking of glass wafers) 172: Component fixation in high temperature (fixation of lead frames)	450	50	BTO
172	0.040		3				

Heat resistance acrylic adhesive tape

High heat resistance, Siloxane free

Item No.	Thickness (mm)	Construction	Adhesive force (N / 25 mm)	Features and Applications	Max. Width (mm)	Length (m)	Comments
178	0.0875	Polyimide film Acrylic adhesive layer Release liner	2.5 (4.5) Note2	Heat-resistant acrylic tape with polyimide substrate. Excellent adhesive property even at high temperatures. For fixing and protection of electric components and semiconductor chip materials.	480	100	BTO

※Note2: The figure in the parentheses is a datum after heat and crimping. As is so with other KGG products, SUS is used for the data taking of 178 (Only with *Maydeangel, the optically clear adhesive, a glass is used.). Please contact us for details.

Super engineering plastic Liquid Crystal Polymer (LCP) film SARAS

High heat resistance, High strength, Flexible

Item No.	Thickness (mm)	Construction	Melting point (°C)	Features and Applications	Max. Width (mm)	Length (m)	Comments
SAR 13	0.013	LCP film (reddish brown)	280 °C	Super engineering plastic film with a melting point of 280°C, low moisture absorbency, high gas barrier performance, high insulation, dimensional stability, three-dimensional moldability, and bend processability.	300	30	BTO
SAR 20	0.02						
SAR 35	0.035						

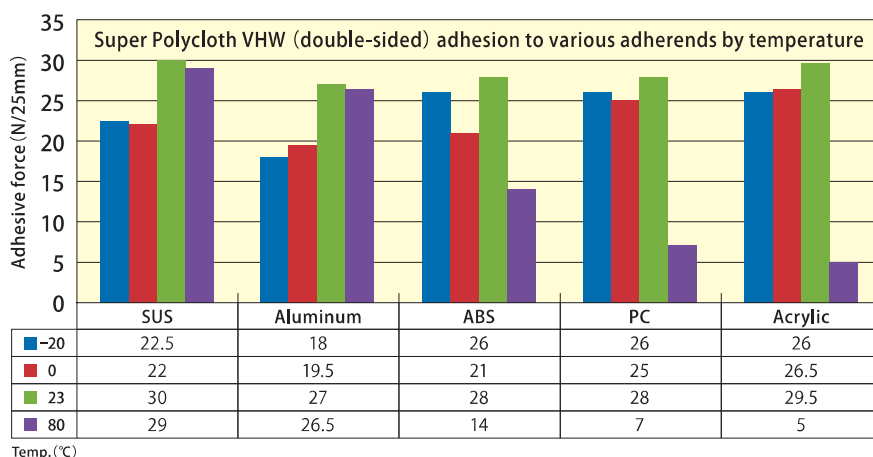
Waterproof and airtight material series

~Proposal as an energy-saving material~

Three key advantages

- ① Strong base material, easy to cut by hand, and has excellent workability.
- ② Excellent adhesion to various types of adherends, and since the adhesive layer has moderate fluidity, it adheres well to rough surfaces.
- ③ Demonstrates strong adhesion not only at high temperatures but also at low temperatures.

※ Also, it is toluene-free and approved as a recommended product by NYG Association.



Waterproof airtight materials

Item No.	Thickness (mm)	Adhesive force (N/25mm)	Construction	Holding power (mm)	Features	Applications	Size (Width×Length)	Package (Pcs)	Color
Super Polycloth VH (single sided)	0.2	30	PE cloth	2.0	<ul style="list-style-type: none"> The base material used is strong, easy to cut by hand, and has excellent workability. excellent adhesion to various types of adherends, and since The adhesive layer has moderate fluidity, it adheres well to rough surfaces. Demonstrates strong adhesion not only at high temperatures but also at low temperatures. Toluene-free Approved as a recommended product by NYG Association (JTC quality standard compliant product) 	<ul style="list-style-type: none"> For waterproofing and joint-aidtightening portions around sashes, floors, openings, and foundation bases. For airtight waterproofing, such as connecting permeable waterproof sheets, heat insulating materials, etc. For airtight waterproofing around piping, girth, etc. For emergency repair of outdoor products, etc. 	50×20 75×20 100×20	36 24 18	Black, Natural
Super Polycloth VHW (double sided)	0.3	30	PE cloth	2.0	<ul style="list-style-type: none"> The base material used is strong, easy to cut by hand, and has excellent workability. excellent adhesion to various types of adherends, and since The adhesive layer has moderate fluidity, it adheres well to rough surfaces. Demonstrates strong adhesion not only at high temperatures but also at low temperatures. Toluene-free Approved as a recommended product by NYG Association (JTC quality standard compliant product) 	<ul style="list-style-type: none"> For waterproofing and joint-aidtightening portions around sashes, floors, openings, and foundation bases. For airtight waterproofing, such as connecting permeable waterproof sheets, heat insulating materials, etc. For airtight waterproofing around piping, girth, etc. For emergency repair of outdoor products, etc. 	50×20 75×20 100×20	36 24 18	Black
603 B	1.1	13	Non-woven butyl rubber	0.5	Waterproof tape with excellent weather resistance, Waterproofing of aluminum sash corner parts, Water sealing at handrail joints	Waterproof tape with excellent weather resistance, Waterproofing of aluminum sash corner parts, Water sealing at handrail joints	1000×20	-	Black
Cell Seal P	3.0 5.0 10.0	10	EPDM foam +PET	-	The special film structure (patented) allows for easy hand cutting and excellent workability. Excellent performance not only on metals but also on various resins. No release paper, no waste.	Airtight sealing applications for houses, building materials, unit houses, heat insulation panels, and storage sheds.	20×15 50×15 50×3.5	50 20 20	Black

Aluminum Tape

Item No.	Thickness (mm)	Construction	Adhesive force (N/25mm)	Holding power (mm)	Features and Applications	Length (m)	Comments
500	0.09	Soft aluminum foil	19	-	High adhesive strength. Excellent performance in durability and thermal conductivity, maintaining the characteristics of aluminum foil. Ideal for air conditioning, heat insulation, and corrosion prevention applications.	50	matted
501	0.09	Soft aluminum foil	19	-	High adhesive strength. Excellent performance in durability and thermal conductivity, maintaining the characteristics of aluminum foil. Ideal for air conditioning, heat insulation, and corrosion prevention applications.	50	glossy
Super Aluminum 520	0.16	Aluminum/PE	18	-	No release paper, no waste. Easy to cut, excellent tracking of curved surfaces, and beautiful finish. For air conditioning systems, heat insulation, and repair.	50	
Super Aluminum VH	0.2	Aluminum/PE	30	-	Super strong adhesive type. No release paper, no waste. Easy to cut, excellent tracking of curved surfaces, and beautiful finish. For air conditioning systems, heat insulation, and repair.	20	

Painting masking tape, Floor curing tape

Item No.	Adhesive force SUS (N/25mm)	Construction	Width × Length × package (mm) × (M) × (pcs)	Features	Applications
Cut Ace MF (green)	7.5	Green	50mm × 25M × 30pcs	Flexible, Easy to cut by hand	For waterproofing and airtightness Masking for painting Curing Binding
Cut Ace MF (blue)	7.5	Blue	50mm × 25M × 30pcs	Flexible, Easy to cut by hand	
Cut Ace MS (blue green)	7.5	Blue green	50mm × 25M × 30pcs	Flexible, Easy to cut by hand	
Cut Ace MS (white)	7.5	White	50mm × 25M × 30pcs	Flexible, Easy to cut by hand	
Cut Ace MWT (orange)	7.5	Orange	50mm × 50M × 30pcs	Flexible, Easy to cut by hand	
Natural Cloth 162 DS <small>[Eco-friendly product]</small>	7.5	Translucent	50mm × 50M × 30pcs	Solvent-free acrylic adhesive; eco-friendly	

Caution

- The data in our catalog are examples of measured values from our tests and are not guaranteed values.
- The contents and specifications are subject to change without notice.
- Please use our products after confirming that they are suitable for each application.
- We reserve the right to discontinue sales of this product without notice.
- Clean off any oil, moisture, and dusts from the surface of the object to be attached, and then apply a tape while avoiding touching the cleaned surface.
- Please make sure to check the inventory status when placing an order.
- It is recommended that the pasting temperature is around 20°C (68°F).
- Please apply sufficient pressure after pasting.
- There may be connection points in the product.

Storage condition

- Products should be kept indoors to avoid condensation and direct sunlight.
- It is recommended that the products be stored in a vertical stack under the following temperature and humidity conditions.
- Temperature: 10 to 25 °C (50 to 77 °F) Humidity: 30 to 70%

Warranty

- We have no control over the process conditions of our customers. Therefore, please understand that we cannot guarantee the performance and quality of our products that are dependent on each customer's process.
- Although the results in our technical data are based on actual data, we do not guarantee the customers will obtain equivalent result when using the same product.
- Seller's obligation is only to replace the product proved to be defective and we are not responsible for any injuries or damages resulting from incomplete handling of the product. Before using the product, please make sure that it is suitable for the intended use.

Notes for safety

- When handling products, individual differences may cause allergic symptoms such as skin irritation, rash, headache due to odor, discomfort etc.
- Therefore, work in a well-ventilated environment or wear appropriate protective equipment such as gloves, masks, and protective eyewears.
- Some of our products fall under the category of flammable materials. Please store and dispose of them in compliance with applicable laws and regulations.
- Wear gloves or other protective gear as necessary to avoid cutting your hands on the edges of the films.
- Please do not leave the release liner (separator) on the floor because it is slippery.



Head office and factories

940 Minaminagai, Tokorozawa, Saitama, 359-0011 Japan
TEL: +81-4-2944-5151 FAX: +81-4-2944-1396

Tomioka factory

1280 Okamoto, Tomioka, Gunma, 370-2321 Japan
TEL: +81-274-70-2611 FAX: +81-274-70-2612

Tokyo Office

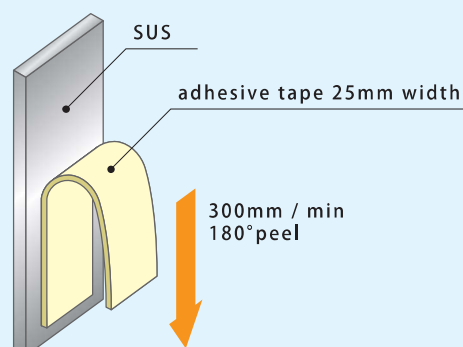
#502 Ikebukuroimaizumi Bldg 4-25-12
Higashiikebukuro, Toshima-ku, Tokyo 170-0013 Japan
Tel: +81-3-5962-0915 FAX: +81-4-2944-1396

URL: <https://www.kgk-tape.co.jp/english>

E-mail: info-k@kgk-tape.co.jp

Adhesive force test method

Peel adhesive (N / 25mm <JIS Z 0237>)



23°C
2kg rubber roller, 1 round trip
After 24hours