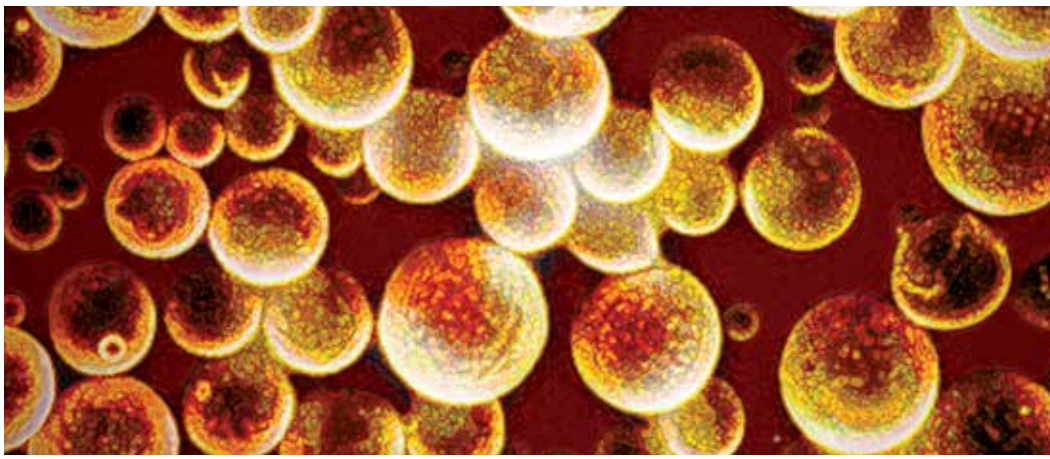
CHR TAPE

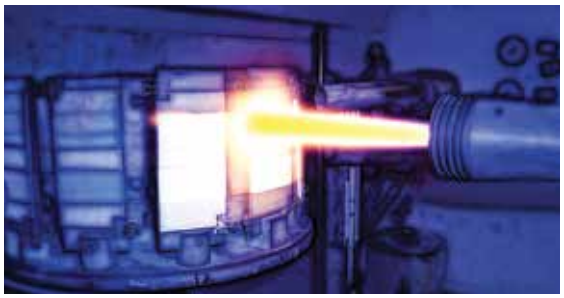
Pressure-Sensitive Adhesive Tapes

SAINT-GOBAIN

Flame Spray Masking

The leader in masking tapes for the thermal spray industry brings you a complete line of tape products. For applications ranging from grit-blasting and plasma spray to the special demands of HVOF, **CHR**® Tapes offer excellent thermal and abrasion resistance while protecting adjacent surfaces from the spray. **CHR** Tapes will not lift off or fray and are designed to release easily without leaving adhesive residue.





HVOF

Plasma

FLAME SPRAY PROCESSES

- **Grit/Bead/Shot Blasting**
  A pre-process step where abrasive materials are discharged at the target to strip/clean/prepare the surface to promote adhesion of various coatings.
- **Flame Spray and Thermal Spray**
  Generic terms for the various thermal processes for depositing ceramic, metal and plastic powders onto a variety of materials.
- **Plasma Spray**
  Introduces powders into an electrical or combustion initiated high energy flame directed toward a variety of materials with the help of pressurized gas/air.
- **HVOF (High Velocity, Oxygen Fuel)**
  A high velocity (550m/sec) process where fine powders are introduced into a stream of pressurized fuel and oxygen.

Silicone glass

CHR Premium Tapes are designed to withstand the most demanding plasma and flame spray, and grit-blasting applications. They are constructed of a silicone rubber and glass fabric composite and have excellent abrasion resistance.

Foil Glass

CHR Foil Glass tapes are an excellent choice for combining conformability with thermal and abrasion resistance. Consisting of aluminum foil (26020) or a thin aluminum foil laminated to a glass fabric (2925-7 and 6004), these tapes perform well in a wide range of applications.

Heavy-Duty Foil Glass

A heavy-duty version of 2925-7, the 2925-11 tape is constructed with .005" of foil for tough applications, including HVOF. 2995-11R is a high adhesion version of 2925-11, which has been used successfully in HVOF applications. An economical choice, 2915-7 is composed of a tightly woven, high tensile glass fabric, with silicone adhesive on one side. 2915-10 is a thicker version of 2915-7 for abrasion resistance.

Glass Fabric

Versatile and reliable, these tapes perform superbly as a masking tape or, when used together with our premium tapes, as an underwrap. 2905-7R is a glass fabric tape coated with adhesive on both sides for superior bonding. 2905-10R is a thicker version of 2905-7R for greater strength.

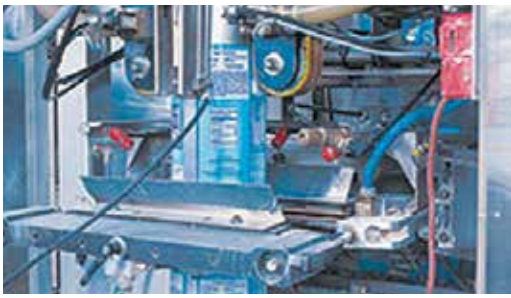
Heavy-Duty Multi-Plies

Exceptional abrasion resistance and adhesion properties make these tapes ideal for demanding applications, including HVOF. H7525 and H6595 are multi-layer tapes composed of silicone rubber, aluminum foil and fiberglass coated with an aggressive high-temperature silicone adhesive. H7575 is a multi-layer tape composed of silicone rubber and glass cloth coated with an aggressive high-temperature silicone adhesive.

Plastic Heat Sealing

Saint-Gobain CHR brand pressure-sensitive adhesive tapes are constructed of fiberglass fabric impregnated with pure polytetrafluoroethylene (PTFE) coated with adhesive, providing superior non-stick surfaces and allowing your equipment to work smoothly and more efficiently. **CHR** plastic heat sealing tapes have been designed to meet the tough requirements demanded by the packaging industry: high speed durability and long life at high temperature.

SG Series tapes and CF Series fabrics



Plastic bags seamed and sealed by VFFS machinery

Premium Grade

The ultimate in quality.
Premium grade is constructed from plied yarns of fiberglass, affording more strength and greater absorption of the impact created by the high speed cycling of packaging equipment. Excellent choice for use with form-fill-seal equipment, PVC welding of vinyl windows and non-stick surface applications in the composite aircraft industry.

High-Performance Grade

The ultimate in smoothness.
High-performance grade is constructed with single yarns, but impregnated and coated with PTFE to premium weight standards (sometimes known as super-smooth). A superior choice for release applications where surface imperfections are an issue.

Primary Grade

The first choice in packaging. Primary grade is the most popular construction sold for heat sealing applications. It combines a standard weight of PTFE with just the right fiberglass fabric, offering an economical package for a variety of heat sealing needs.

Industrial Grade

The versatile performer. Industrial grade is excellent for accessory applications in packaging, such as chute linings, sliders, guide rails, cover tapes, etc. This dimensionally stable product resists tears, punctures, abrasion and wear. It will not cold-flow under heavy loads.

CHEMLAM®

The ultimate performer. Constructed from lightly PTFE coated glass laminated to our standard brown CHEMFILM® (SGB5-04, 06, 10) and special copper CHEMFILM (SGC5-04, 06, 10), these tapes offer up to 30% greater life in application compared to multi-dipped fabric due to uniform thickness and the use of pinhole-free PTFE film as the sealing surface.

Anti-Static Grade

The static eliminator. Anti-static grade tapes are designed to dissipate energy build-up in application. Not truly conductive (adhesive is not conductive grade), surface coating containing conductive fillers draws off static created by films during heat sealing operations.

Zone Tape

Adhesive where you need it. When covering hot wire sealer/cutters, keep adhesive out of the way with zone tape made with acrylic transfer adhesive (2829) or bonded to high-temperature masking tape (2819).

Aircraft/Aerospace Composite Bonding

CHR Tapes are available for various demanding accessory applications, like masking for stripping and painting, lining/seaming of miscellaneous cargo and bulkhead compartments, and general purpose sliding applications in cargo pits. In addition, manufacturing of structural components and engine repair in aircraft/aerospace require a variety of tapes to protect and mask valuable and indispensable on-board systems.

GE aircraft engine series CF6-80

Plane paint masking

Anti-Chaff/Cut-Resistant Harness Wrap

SGK5-05 Kevlar®-PTFE tape protects wire harnesses and other critical engine components from abrasion and cut-through damage, and can also be used to repair such damage. Practical experience in weaving/manufacturing glass and aramid cloth and fabrication of protective/preventive systems for commercial and military transportation has enabled us to create a tape product that will stand up to the most challenging applications and deliver the high reliability so essential to the aircraft industry.

Flash Breaking

These specially designed rubber adhesive-polyester film tapes break the flash overage created during vacuum component bonding. Rubber adhesives conform intimately to a variety of surfaces and do not leave silicone oil residue, which saves time and money.

Paint Masking Foil

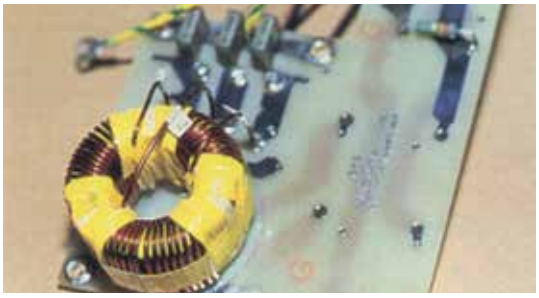
Chemical etching and caustic stripping solutions destroy expensive, sensitive polycarbonate windows; foil-based masking products provide the necessary masking and protection required in this demanding application. Critical components are protected and foil masking provides fine line service even during general painting operations.

Tool and Mold Masking

More and more A/A components are being made from composite bonded lay-ups. Non-stick, disposable surfaces created by PTFE films (2255 and HM) as well as PTFE coated fabrics (A2005) assure smooth and certain release from component molds and tools.

Electrical Insulation and Isolation

CHR Tapes for electrical insulation applications center around dielectric strength and operating temperature. Whether it's coil winding, end tabbing, outer wrapping, harness protection or potting cable ends, these tapes cover most of the demanding industrial electrical needs. Electrical isolation is mostly about conductivity. **Saint-Gobain** produces a variety of foil tapes formulated to shield your most important electrical cables, cabinets and individual components.



Coil outer wrap taping

EMI-RFI copper tape shielding

Film Insulation

Polyester film tapes are produced from electrical grade strength, high quality, optically pure film with consistent, minimum dielectric resistance of 5kV for 1.0-mil, 7.0kV for 2.0-mil and 10kV for 5.0-mil tapes, regardless of adhesive type or insulation class.

Polyimide film tapes, made from thermally produced, oriented film, offer distinct advantages over polyester film: higher dielectric strength and higher temperature resistance. PI film of 1.0 mil offers 6.5kV, 2.0-mil film is rated at 10.0kV and 5.0-mil film delivers the ultimate one-wrap dielectrics of 17.0kV.

PTFE-based films provide economical resistive qualities and non-stick properties important in many wire and cable applications. Dielectric strength varies with media density, but generally 2.0-mil film offers 7.5kV, 3.0-mil film is rated at 10.0kV and 5.0-mil PTFE film delivers around 13.0kV of electrical resistance.

Fabric Insulation

Woven fiberglass cloth has traditionally been an excellent insulation material for harnesses and coil winding in motor assemblies. Available in a standard 7.0-mil-thick package and heavy-duty grade at 10.0 mils, adhesive selection allows the user to bridge insulation classes from 130°C (rubber adhesive) to 200°C (silicone adhesive).

Foil Isolation

Both aluminum foil and copper foil make superior electromagnetic and radio frequency absorption and isolation media due to their natural conductivity, flexibility and malleability. Coated with adhesives to enhance conductivity and thermal management, these **CHR** tapes are frequently used in end connectors and shielded cabinets and devices.

Temperature	Insulation Class	Material	Adhesive
130°C	B	PET, PI, Glass, PTFE	Rubber
155°C	F	PI, Glass, PTFE	Acrylic
180°C	H	PI, Glass, PTFE	Silicone
200°C	N	Glass	Silicone

UL Guide OANZ2, UL 510, file E51201 and E66639

Industrial Non-Stick

FEATURES/BENEFITS

- Non-toxic
- Weather resistant
- Self lubricating
- Chemical and heat resistant
- Available in both low-temperature acrylic and high-temperature clean release silicone adhesive
- Available in thicknesses from 2.0–20 mils
- Meets MIL spec requirements

PVC extrusion welding, platen cover

Orange overcoat masking tape on chill roll

Rulon®

The abrasion resistant PTFE. **Rulon** offers superior (500X) wear resistance in rotating bearing tests, and its low coefficient of friction, high operating temperature (500°F) and self-lubricating properties make this tape an excellent choice for liners, and chute and rail coverings.

Skived PTFE

The non-stick standard. PTFE film tapes are well suited for packaging equipment and heat sealing applications, graphic arts, electrical insulation and general purpose industrial use. 2042 comes with acrylic adhesive and 2045 with silicone adhesive. Both are the traditional gray color.

Skived, High-Modulus PTFE

The less stretch PTFE. High-modulus tapes have less elongation and greater tensile strength than plain skived PTFE tapes. 2253 comes with acrylic adhesive and 2254/2255 have silicone adhesives. These films exhibit outstanding dielectric, chemical, temperature, wear, anti-stick and non-toxic properties. All high-modulus tapes are the traditional gray color.

Extruded, High-Modulus PTFE, Oriented, Extruded and High-Modulus PTFE

The ultimate roller wrappers. Extruded high-modulus and specially oriented extruded PTFE films are the ultimate in durability, low stretch/high strength, high temperature, non-stick protection for lamination lay-ups and roll-end wraps. 2275 and 2285 are popular in plastic extrusion to protect the exposed roll ends from molten plastic. Sometimes fabricated into belts, the release and stability properties are especially important on those long production runs.

Ultra High Molecular Weight Polyethylene

The tough, long lasting tape. Both 2302 (acrylic) and 2300 (rubber) adhesive coated UHMW film tapes offer extreme abrasion resistance, low friction and non-stick performance at lower temperatures (225°F limit) compared to PTFE. Excellent choice for sliders, rail covers in automated packaging and bearing surfaces.

Electronic Assembly and Fabrication

CHR Tapes are very high quality masking products. Special formulations for softness allow adhesives to create fine lines and conform to trace lay-downs. Whether it's for gold finger plating, splash and fume protection, wave soldering, hot air leveling or conformal coating, **Saint-Gobain** has made an adhesive, in combination with the correct substrate film, to work each and every time.

Conformal Coating Mask

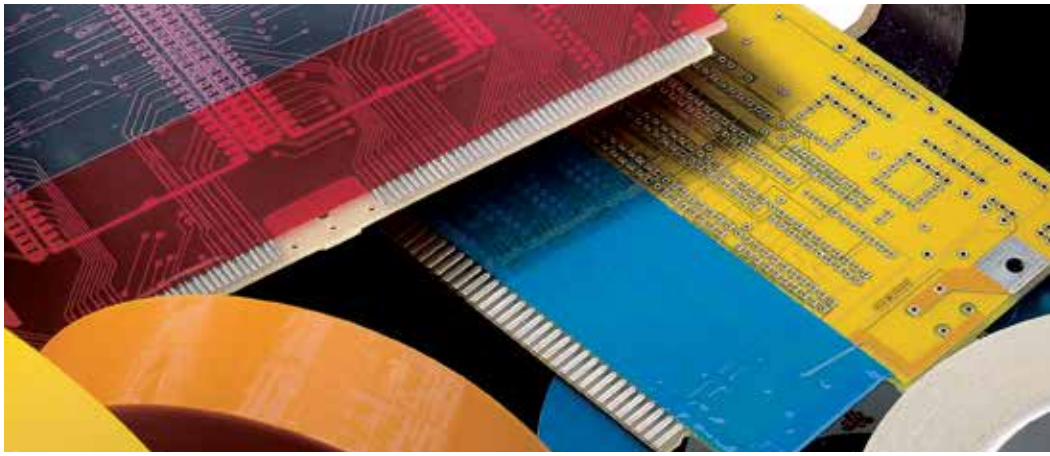
M797 coating masking tape is specifically designed to mask off areas on the stuffed PC board. With a tight unwind created by no release back coating on the polyester film, coating flashing can be broken with a clean edge that requires no further re-work, reducing process time.

Fume Protection

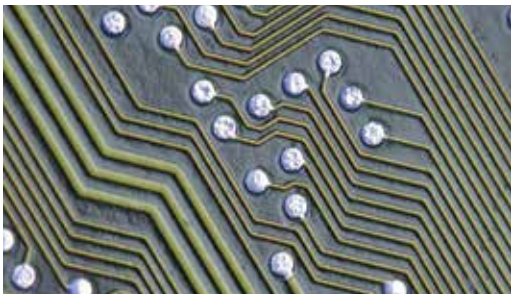
M851 fume protection tape protects the circuitry from chemical splashes and fumes during gold tab plating operations. This cost-effective, low-adhesion tape has excellent chemical and high temperature resistance. M851 performs as a companion protection tape to the plate masking M717 tape during plating operations. M851 is available in green.

Solder Masking Over Bare Copper (SMOBC) Tape

M803 is used in combination with a pre-applied protective solder mask and provides full protection to the exposed holes in the board. M803 is applied at the plating line by either automated equipment or by hand and serves as a fail-safe line of demarcation at the connector tabs.



Finger masking with polyimide tape



Wave soldered PC board

Area Masking

M734 is a low-cost substitute for dry film in multi-layer processing to protect copper. These tapes use natural rubber adhesives, which save as much as half the cost compared to silicone-based products.

Anti-Static (HAL)

K-290ESD has excellent electrostatic discharge properties. The ESD additive reduces the electrostatic discharge that occurs upon tape removal. The proprietary adhesive system provides high electrostatic dissipation without sacrificing adhesive strength at extreme temperatures. K-290ESD is available with or without a liner.

Part Number	Color	Adhesive System	Backing Thickness		Adhesive Thickness		Total Thickness		Adhesion Strength		Tensile Strength		Elongation	Dielectric	Insulation Class	Temperature Range				Comments
			mil	mm	mil	mm	mil	mm	oz/in	g/cm	lbs/in	kg/cm	%	kV	°C	Min °F	Max °F	Min °C	Max °C	
FILM—FEP																				
C	Clear	S	2.0	0.051	1.5	0.038	3.5	0.089	20	220	8	1.4	275	9.0	155	-100	400	-73	204	
2355-2	Clear	S	2.0	0.051	1.5	0.038	3.5	0.089	20	220	8	1.4	275	9.0	155	-100	400	-73	204	
FILM—ETFE																				
2455	Blue	S	2.0	0.051	2.0	0.051	4.0	0.101	20	220	15	2.7	350	—	155	-40	446	-40	230	Matte surface
FILM—POLYESTER																				
M50	White	S	1.0	0.025	1.5	0.038	2.5	0.064	25	276	25	4.5	100	5.0	130	-100	350	-73	177	UL Guide OARC2, File E51201, UL 510A
M52	Clear	S	1.0	0.025	1.5	0.038	2.5	0.064	30	331	25	4.5	100	5.0	130	-100	350	-73	177	
M717	Red	S	1.0	0.025	2.8	0.071	3.8	0.097	30	331	25	4.5	100	5.0	130	-100	350	-73	177	
M741	Blue	S	1.0	0.025	2.0	0.051	3.0	0.076	25	276	25	4.5	100	5.0	130	-100	350	-73	177	High Tack Silicone Adhesive
M746	Red/ Bl	S	1.0	0.025	0.8	0.020	1.8	0.046	13	143	25	4.5	100	—	130	-100	350	-73	177	
M751	Yellow	S	1.0	0.025	2.0	0.051	3.0	0.076	25	276	25	4.5	100	5.0	130	-100	350	-73	177	
M758	Black	S	1.0	0.025	1.5	0.038	2.5	0.064	25	276	25	4.5	100	5.0	130	-100	350	-73	177	UL Guide OARC2, File E51201, UL 510A
M803	Blue	S	1.0	0.025	2.0	0.051	3.0	0.076	25	276	25	4.5	100	5.0	130	-100	350	-73	177	Clean Release Silicone Adhesive
M815	Clear	S	1.0	0.025	2.0	0.051	3.0	0.076	30	331	25	4.5	100	5.0	130	-100	350	-73	177	
M823	Blue	S	1.0	0.025	1.8	0.046	2.8	0.071	30	331	25	4.5	100	5.0	130	-100	350	-73	177	Available Only with Liner
M824	Blue	S	1.0	0.025	1.5	0.038	2.5	0.064	30	331	25	4.5	100	5.0	130	-100	350	-73	177	
M730	Green	S	1.5	0.038	1.0	0.025	2.5	0.064	25	276	35	6.3	100	6.0	130	-100	350	-73	177	
M887	Emerald	S	2.0	0.051	1.5	0.038	3.5	0.089	40	441	50	8.9	120	7.0	130	-60	350	-51	177	
M56	Clear	R	1.0	0.025	1.5	0.038	2.5	0.064	45	496	25	4.5	100	5.0	130	0	325	-18	163	
M54A	Yellow	R	1.0	0.025	1.5	0.038	2.5	0.064	50	551	25	4.5	100	5.0	130	0	325	-18	163	UL Guide OANZ2, File E51201, UL 510A
M734	Orange	R	1.0	0.025	0.6	0.015	1.6	0.041	6	66	25	4.5	100	5.0	100	0	325	-18	163	
M797	Mustard	R	1.0	0.025	2.0	0.051	3.0	0.076	30	331	25	4.5	100	5.0	130	0	325	-18	163	
M851	Green	R	1.0	0.025	2.0	0.051	3.0	0.076	15	165	25	4.5	100	6.0	130	0	350	-18	177	
M783	Pink	R	2.0	0.051	1.7	0.043	3.7	0.094	35	386	50	8.9	120	7.0	130	0	325	-18	163	
M852	Green	R	2.0	0.051	2.0	0.051	4.0	0.102	15	165	50	8.9	120	7.0	130	0	350	-18	177	
M855	Green	R	5.0	0.127	2.0	0.051	7.0	0.178	6	66	100	17.9	100	10.0	130	0	350	-18	177	
M69	Clear	A/A	1.0	0.025	3.0	0.076	4.0	0.102	30	331	25	4.5	100	5.0	130	-20	325	-29	163	Available Only with Liner
M97	Yellow	A	1.0	0.025	1.5	0.038	2.5	0.064	30	331	25	4.5	100	5.0	130	-20	325	-29	163	
M60	Clear	A	1.0	0.025	1.5	0.038	2.5	0.064	30	331	25	4.5	100	5.0	130	-20	325	-29	163	
M705	Black	A	1.0	0.025	1.5	0.038	2.5	0.064	30	331	25	4.5	100	5.0	130	-20	325	-29	163	
M765	White	A	1.0	0.025	1.5	0.038	2.5	0.064	25	276	25	4.5	100	5.0	130	-20	325	-29	163	
FILM—POLYIMIDE																				
2345-1	Amber	S	1.0	0.025	1.5	0.038	2.5	0.064	25	276	30	5.4	50	6.5	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2345-2	Amber	S	2.0	0.051	1.5	0.038	3.5	0.089	25	276	50	8.9	75	10.0	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2345-5	Amber	S	5.0	0.127	1.5	0.038	6.5	0.165	20	221	150	26.8	75	17.0	180	-100	500	-73	260	
K104	Amber	S	0.5	0.013	1.0	0.025	1.5	0.038	15	165	10	1.8	25	4.0	180	-100	500	-73	260	
K201	Amber	S	1.0	0.025	1.5	0.038	2.5	0.064	25	276	30	5.4	50	N/A	180	-100	500	-73	260	Masking Grade
K202	Amber	S	2.0	0.051	1.5	0.038	3.5	0.089	25	276	50	8.9	75	N/A	180	-100	500	-73	260	Masking Grade
K250A	Amber	S	1.0	0.025	1.5	0.038	2.5	0.064	30	220	30	5.4	50	7.0	180	-100	500	-73	260	UL Guide OANZ2, File E51201, UL 510A
K350	Amber	S	2.0	0.051	1.5	0.038	3.5	0.089	20	220	50	8.9	75	10.0	180	-100	500	-73	260	UL Guide OARC2, File E51201, UL 510A
K102	Amber	A	1.0	0.025	1.5	0.038	2.5	0.064	30	331	30	5.4	50	7.0	155	-20	350	-29	177	Clean Release ACRYLIC Adhesive
K103A	Amber	A	1.0	0.025	1.5	0.038	2.5	0.064	25	275	30	5.4	50	7.0	155	-20	350	-29	177	UL Guide OANZ2, File E51201, UL 510A
K109	Amber	A	2.0	0.051	1.5	0.038	3.5	0.089	30	331	50	8.9	75	10.0	155	-20	350	-29	177	
K290ESD	Amber	S	1.0	0.025	1.5	0.038	2.5	0.064	20	220	30	5.4	50	7.0	180	-100	500	-73	260	
K100	Amber	S/S	1.0	0.025	3.5	0.089	4.5	0.114	20	220	30	5.4	50	7.5	180	-100	500	-73	260	Available only with liner
FILM—PTFE																				
Skived																				
2045-2	Gray	S	2.0	0.051	1.5	0.038	3.5	0.089	30	331	15	2.7	200	7.5	180	-100	500	-73	260	
2045-3	Gray	S	3.0	0.076	1.5	0.038	4.5	0.114	35	386	20	3.6	250	9.5	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2045-5	Gray	S	5.0	0.127	1.5	0.038	6.5	0.165	40	441	30	5.4	300	13.0	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2045-10	Gray	S	10.0	0.250	1.5	0.038	11.5	0.292	50	551	55	10.7	350	19.5	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2042-2	Gray	A	2.0	0.051	1.5	0.038	3.5	0.089	25	276	15	2.7	300	7.5	130	-100	350	-73	177	
2042-3	Gray	A	3.0	0.076	1.5	0.038	4.5	0.114	30	331	20	3.6	375	9.5	130	-100	350	-73	177	
2042-5	Gray	A	5.0	0.127	1.5	0.038	6.5	0.165	35	386	30	5.4	400	13.0	130	-100	350	-73	177	
2042-10	Gray	A	10.0	0.250	1.5	0.038	11.5	0.292	55	606	55	9.9	450	19.5	130	-100	350	-73	177	

Part Number	Color	Adhesive System	Backing Thickness		Adhesive Thickness		Total Thickness		Adhesion Strength		Tensile Strength		Elongation	Dielectric	Insulation Class	Temperature Range				Comments
			mil	mm	mil	mm	mil	mm	oz/in	g/cm	lbs/in	kg/cm	%	kV	°C	Min °F	Max °F	Min °C	Max °C	
FILM—PTFE																				
High Modulus																				
2250-2	Gray	R	2.0	0.051	1.5	0.038	3.5	0.089	25	276	30	5.4	150	8.0	130	-80	325	-40	163	
2253-2	Gray	A	2.0	0.051	1.5	0.038	3.5	0.089	30	331	30	5.4	150	9.5	130	-40	350	-40	177	
2254-2	Gray	S	2.0	0.051	1.5	0.038	3.5	0.089	35	386	30	5.4	150	9.0	150	-40	500	-40	260	
22B5-2	Black	S	2.2	0.056	1.0	0.025	3.2	0.081	30	335	35	6.3	100	—	180	-40	500	-40	260	Anti-static
22B5-2HA	Black	S	2.2	0.056	2.0	0.051	4.2	0.107	35	390	35	6.3	100	—	180	-40	500	-40	260	Anti-static
2255-2	Gray	S	2.0	0.051	1.5	0.038	3.5	0.089	30	331	30	5.4	150	9.0	180	-100	500	-73	260	UL Guide OANZ2, File E51201, UL 510A
2255-3	Gray	S	3.0	0.076	1.5	0.038	4.5	0.114	35	386	45	8.0	175	11.0	180	-100	500	-73	260	
2255-5	Gray	S	5.0	0.125	1.5	0.038	6.5	0.165	40	441	60	10.7	175	15.0	180	-100	500	-73	260	
2255-6	Gray	S	6.0	0.152	1.5	0.038	7.5	0.191	45	496	65	11.7	200	18.0	180	-100	500	-73	260	
HM15-5	White	S	5.3	0.135	1.5	0.038	7.0	0.178	30	335	40	7.1	200	11.0	—	-100	500	-73	260	
2255 product series also available with silicone adhesive in 4, 6, 7 and 10 mil. backing thickness; please consult factory.																				
Enhanced High Modulus																				
R233	Gray	A	3.0	0.075	1.5	0.038	6.5	0.165	30	331	75	13.0	150	9.5	130	-40	350	-40	177	
R253	Gray	S	3.0	0.075	1.5	0.038	6.5	0.165	40	441	75	13.0	110	11.0	—	-100	500	-73	260	
R263	Gray	S	2.4	0.060	1.5	0.038	4.5	0.120	40	441	45	7.0	100	9.5	—	-100	500	-73	260	Qualified to ABS5330 and MIL A-A-59474 specifications
Extruded																				
2265-2	Clear	S	2.0	0.051	1.5	0.038	3.5	0.089	35	386	25	4.5	200	8.0	—	-100	500	-73	260	
2265-5	Clear	S	5.0	0.127	2.0	0.051	7.0	0.178	45	496	65	11.8	250	15.0	—	-100	500	-73	260	
2275-2	Rust	S	2.3	0.058	1.9	0.048	4.2	0.107	40	441	45	8.0	110	11.0	—	-100	500	-73	260	
2283-2	Rust	A	2.0	0.051	2.0	0.051	4.0	0.102	30	331	30	5.0	150	10.0	—	-40	350	-40	177	
2285-2	Rust	S	2.0	0.051	1.5	0.038	3.5	0.089	30	331	30	5.0	175	9.0	—	-100	500	-73	260	
2285-5	Rust	S	5.0	0.127	1.5	0.038	6.5	0.165	40	441	75	13.0	200	16.0	—	-100	500	-73	260	
FILM—RULON																				
RU	Rose	S	8.0	0.203	2.0	0.051	10.0	0.254	25	276	20	3.6	225	—	155	-100	500	-73	260	
RU101	Rose	A	8.0	0.203	2.3	0.058	10.3	0.262	20	220	20	3.6	225	—	155	-20	350	-29	177	
FILM—UHMW																				
2300-5R	Natural	R	5.0	0.127	2.0	0.051	7.0	0.178	55	606	40	7.0	350	—	—	0	225	-18	107	
2300-10R	Natural	R	10.0	0.250	2.0	0.051	12.0	0.305	55	606	80	14.5	400	—	—	0	225	-18	107	
2302-3R	Natural	A	3.0	0.076	1.5	0.038	4.5	0.114	35	386	20	3.6	300	—	—	-40	225	-40	107	
2302-5R	Natural	A	5.0	0.127	1.5	0.038	6.5	0.165	45	496	40	7.0	350	—	—	-40	225	-40	107	
2302-10R	Natural	A	10.0	0.250	1.5	0.038	11.5	0.292	50	551	80	14.5	425	—	—	-40	225	-40	107	
2302-20R	Natural	A	20.0	0.500	1.5	0.038	21.5	0.546	50	551	145	26.3	500	—	—	-40	225	-40	107	
For 23XX product series, a blue PE liner is standard.																				
GLASS—CLOTH																				
2905-7R	White	S/S	4.5	0.114	2.5	0.064	7.0	0.178	40	441	175	31.3	<10	—	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2905-10R	White	S/S	6.5	0.165	4.0	0.102	10.5	0.267	25	276	225	40.2	<10	8.0	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2915-7	White	S	4.5	0.114	2.5	0.064	7.0	0.178	40	441	160	28.6	—	4.5	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2915-7Q	White	S	4.5	0.114	2.5	0.064	7.0	0.178	40	441	160	28.6	—	4.5	180	-100	590	-73	260	Thermoset Silicone
2915-10	White	S	5.5	0.140	4.5	0.114	10.0	0.254	40	441	175	31.3	—	5.0	180	-100	500	-73	260	UL Guide OANZ2, File E66639, UL510A
2916-7	White	S	4.5	0.114	2.5	0.064	7.0	0.178	45	496	165	29.0	—	4.3	—	-100	500	-73	260	
G551	White	R	4.5	0.114	2.5	0.064	7.0	0.178	50	551	150	26.8	<5	3.5	130	0	350	-18	177	
G561	White	S	4.5	0.114	2.5	0.064	7.0	0.178	40	441	160	28.6	—	4.5	180	-100	590	-73	260	Thermoset Silicone
G565	White	S	4.5	0.114	2.5	0.064	7.0	0.178	40	441	160	28.6	—	4.5	180	-100	500	-73	260	UL Guide OANZ2, File E51201, UL 510A
G569	White	A	4.5	0.114	2.5	0.064	7.0	0.178	30	331	150	26.8	<5	3.0	155	-20	350	-29	177	
GLASS—FOIL																				
06004	Alum.	S	2.5	0.064	3.5	0.089	8.0	0.203	60	661	155	28.1	—	—	—	-100	500	-73	260	
06005	Alum.	S	2.5	0.064	3.5	0.089	8.0	0.203	70	772	150	27.0	7	—	—	-100	500	-73	260	
2925-7	Alum.	S	2.5	0.064	4.5	0.114	7.0	0.178	60	661	130	23.6	7	—	—	-100	500	-73	260	UL Guide OARC2, File E66639, UL510A
2925-11	Alum.	S	7.5	0.191	3.5	0.089	11.0	0.279	75	827	200	35.7	7	—	—	-100	500	-73	260	
2995-11R	Alum.	S	7.5	0.178	5.0	0.076	12.0	0.305	45	496	150	27.0	5	—	—	-100	500	-73	260	

Part Number	Color	Adhesive System	Backing Thickness		Adhesive Thickness		Total Thickness		Adhesion Strength		Tensile Strength		Elongation	Dielectric	Insulation Class	Temperature Range				Comments
			mil	mm	mil	mm	mil	mm	oz/in	g/cm	lbs/in	kg/cm	%	kV	°C	Min °F	Max °F	Min °C	Max °C	
GLASS—SILICONE																				
23816	White	S	8.0	0.203	4.0	0.102	12.0	0.305	50	551	100	18.0	—	7	—	-100	500	-73	260	
2965-8R	Blue	S	7.0	0.178	3.5	0.089	10.5	0.267	45	496	100	18.0	15	4	—	-100	500	-73	260	Low residue adhesive
2975-8R	White	S	7.0	0.178	3.5	0.089	10.5	0.267	50	551	150	27.0	5	7	—	-100	500	-73	260	
29A5	White	S	7.0	0.178	3.5	0.089	10.5	0.267	50	551	150	27.0	5	7	—	-100	500	-73	260	No liner, self-wound
HV60	White	S	17.5	0.440	3.5	0.089	21.0	0.553	50	551	150	27.0	5	7	—	-100	500	-73	260	
H7575	White	S	17.5	0.440	3.5	0.089	21.0	0.553	50	551	180	32.7	—	—	—	-100	500	-73	260	
H7525	White	S	15.0	0.380	2.5	0.064	17.5	0.445	50	551	125	22.0	—	—	—	-100	500	-73	260	
For 23816, 2965-8R, 2975 and H7575, a yellow-dimpled PVC liner is standard. For H7525, a Kraft paper liner is standard.																				
PARA-ARAMID CLOTH-PTFE																				
Anti-Static, Super Abrasion Resistant																				
SGK5-05	Black	S	5.0	0.127	2.0	0.051	7.0	0.178	25	276	200	35.7	3	—	—	-100	500	-73	260	Cut-Resistant
GLASS—PTFE																				
Anti-Static																				
SG56-03(R)	Black	S	3.0	0.076	2.0	0.051	5.0	0.127	45	497	80	14.3	<5	—	—	-100	500	-73	260	
SG56-05(R)	Black	S	5.0	0.127	2.0	0.051	7.0	0.178	50	552	150	26.8	<5	—	—	-100	500	-73	260	
SG56-06(R)	Black	S	6.0	0.152	2.0	0.051	8.0	0.203	65	718	175	31.2	<5	—	—	-100	500	-73	260	
For SG5X product series, a yellow-dimpled PVC liner is standard.																				
CHEMLAM Brown																				
SGB6-04(R)	Brown	S	4.2	0.107	2.0	0.051	6.2	0.157	45	497	100	17.9	<5	—	—	-100	500	-73	260	
SGB6-06(R)	Brown	S	5.9	0.149	2.0	0.051	7.9	0.201	50	552	125	22.3	<5	—	—	-100	500	-73	260	
SGB6-10(R)	Brown	S	9.5	0.241	2.0	0.051	10.5	0.267	55	607	250	44.6	<5	—	—	-100	500	-73	260	
CHEMLAM Copper																				
SGC6-04(R)	Copper	S	4.2	0.107	2.0	0.051	6.2	0.157	45	497	100	17.9	<5	—	—	-100	500	-73	260	
SGC6-06(R)	Copper	S	5.9	0.149	2.0	0.051	7.9	0.201	50	552	125	22.3	<5	—	—	-100	500	-73	260	
For Silicone Adhesives, a yellow-dimpled PVC liner is standard																				
Roll Covering																				
280-6(R)	Tan	S	6.0	0.152	2.0	0.051	8.0	0.203	55	606	175	31.0	<5	—	—	-100	500	-73	260	
High Performance																				
SG13-03(R)	Natural	A	3.0	0.076	2.0	0.051	5.0	0.127	60	662	90	16.1	<5	—	—	-40	350	-73	260	
SG13-05(R)	Natural	A	5.0	0.127	2.0	0.051	7.0	0.178	70	773	150	26.8	<5	—	—	-40	350	-73	260	
SG13-06(R)	Natural	A	6.0	0.152	2.0	0.051	8.0	0.203	75	828	150	26.8	<5	—	—	-40	350	-73	260	
SG13-10(R)	Natural	A	10.0	0.250	2.3	0.058	12.3	0.312	70	773	325	58.0	<5	—	—	-40	350	-73	260	
SG13-14(R)	Natural	A	14.0	0.350	2.3	0.058	16.3	0.414	70	773	400	71.4	<5	—	—	-40	350	-73	260	
SG15-03(R)	Natural	S	3.0	0.076	2.3	0.058	5.3	0.134	50	552	90	16.1	<5	—	—	-100	500	-73	260	
SG15-05(R)	Natural	S	5.0	0.127	2.3	0.058	7.3	0.185	60	662	150	26.8	<5	—	—	-100	500	-73	260	
SG15-06(R)	Natural	S	6.0	0.152	2.3	0.058	8.3	0.205	65	718	150	26.8	<5	—	—	-100	500	-73	260	
SG15-10(R)	Natural	S	10.0	0.250	2.5	0.064	12.5	0.318	80	883	325	58.0	<5	—	—	-100	500	-73	260	
SG15-14(R)	Natural	S	14.0	0.350	2.5	0.064	16.5	0.420	80	883	400	71.4	<5	—	—	-100	500	-73	260	
SG16-05(R)	Natural	S	5.0	0.127	2.3	0.058	7.3	0.185	60	662	150	26.8	<5	—	—	-100	500	-73	260	
For Silicone Adhesives, a yellow-dimpled PVC liner is standard; For Acrylic Adhesives, a blue PE liner is standard.																				
Premium																				
SG03-03(R)	Brown	A	3.0	0.076	1.7	0.043	4.7	0.118	40	442	90	16.1	<5	4	180	-100	500	-73	260	
SG05-03(R)	Brown	S	3.0	0.076	1.7	0.043	4.7	0.118	45	497	90	16.1	<5	4	180	-100	500	-73	260	
SG05-05(R)	Brown	S	5.0	0.127	1.7	0.043	6.7	0.170	55	607	175	31.2	<5	5	180	-100	500	-73	260	
SG05-06(R)	Brown	S	6.0	0.152	1.7	0.043	7.7	0.194	55	607	175	31.2	<5	6.5	180	-100	500	-73	260	
SG05-10(R)	Brown	S	10.0	0.250	1.7	0.043	11.7	0.297	60	662	250	44.6	<5	8.5	180	-100	500	-73	260	
For Silicone Adhesives, a yellow-dimpled PVC liner is standard; for Acrylic Adhesives, a blue PE liner is standard.																				

Part Number	Color	Adhesive System	Backing Thickness		Adhesive Thickness		Total Thickness		Adhesion Strength		Tensile Strength		Elongation	Dielectric	Insulation Class	Temperature Range				Comments
			mil	mm	mil	mm	mil	mm	oz/in	g/cm	lbs/in	kg/cm	%	kV	°C	Min °F	Max °F	Min °C	Max °C	
GLASS—PTFE																				
Primary																				
SG23-03(R)	Natural	A	3.0	0.076	2.0	0.051	5.0	0.127	60	662	90	16.1	<5	—	—	-40	350	-40	177	
SG23-05(R)	Natural	A	5.0	0.127	2.0	0.051	7.0	0.178	70	773	150	26.8	<5	—	—	-40	350	-40	177	
SG23-06(R)	Natural	A	6.0	0.152	2.0	0.051	8.0	0.188	75	828	150	26.8	<5	—	—	-40	350	-40	177	
SG23-10(R)	Natural	A	9.0	0.250	2.3	0.058	11.3	0.287	70	773	250	44.6	<5	—	—	-40	350	-40	177	
SG25-03(R)	Natural	S	3.0	0.076	2.3	0.058	5.3	0.134	50	552	90	16.1	<5	—	—	-100	500	-73	260	
SG25-05(R)	Natural	S	5.0	0.127	2.3	0.058	7.3	0.185	60	662	150	26.8	<5	—	—	-100	500	-73	260	
SG25-06(R)	Natural	S	6.0	0.152	2.3	0.058	8.3	0.205	65	718	150	26.8	<5	—	—	-100	500	-73	260	
SG25-10(R)	Natural	S	9.0	0.229	2.5	0.064	11.5	0.293	80	883	250	44.6	<5	—	—	-100	500	-73	260	
SG26-03(R)	Natural	S	3.0	0.076	2.0	0.051	5.0	0.127	45	497	90	16.1	<5	—	—	-100	500	-73	260	
SG26-05(R)	Natural	S	5.0	0.127	2.0	0.051	7.0	0.178	50	552	150	26.8	<5	—	—	-100	500	-73	260	
SG26-06(R)	Natural	S	6.0	0.152	2.0	0.051	8.0	0.188	55	607	150	26.8	<5	—	—	-100	500	-73	260	
SG26-10(R)	Natural	S	9.0	0.229	2.0	0.051	11.0	0.280	70	773	250	44.6	<5	—	—	-100	500	-73	260	
For Silicone Adhesives, a yellow-dimpled PVC liner is standard; For Acrylic Adhesives, a blue PE liner is standard.																				
Industrial																				
SG33-03(R)	Natural	A	3.0	0.076	2.0	0.051	5.0	0.127	60	662	75	13.4	<5	—	—	-40	350	-73	260	
SG35-03(R)	Natural	S	3.0	0.076	2.3	0.058	5.3	0.134	50	552	75	13.4	<5	—	—	-100	500	-73	260	
SG35-05(R)	Natural	S	5.0	0.127	2.3	0.058	7.3	0.185	60	662	160	28.6	<5	—	—	-100	500	-73	260	
SG35-06(R)	Natural	S	6.0	0.152	2.3	0.058	8.3	0.205	65	718	275	49.1	<5	—	—	-100	500	-73	260	
SG35-10(R)	Natural	S	8.0	0.203	2.5	0.064	10.5	0.267	80	883	275	49.1	<5	—	—	-100	500	-73	260	
For Silicone Adhesives, a yellow-dimpled PVC liner is standard; For Acrylic Adhesives, a blue PE liner is standard.																				
A-2005	Natural	S	3.0	0.076	2.5	0.064	5.5	0.140	50	551	90	16.1	<5	—	—	-100	500	-73	260	
FOIL—ALUMINUM—PTFE																				
MD15	Al/PTFE	S	3.5	0.09	2.0	0.051	5.5	0.14	60	662	20	3.6	<5	—	—	-100	500	-73	260	
MDT	Al/PTFE	—	3.5	0.09	—	—	3.5	0.09	—	—	20	3.6	<5	—	—	-100	500	-73	260	
FOIL—ALUMINUM																				
A602	Alum.	S	2.0	0.052	2.0	0.051	4.0	0.102	60	661	20	3.6	8	—	—	-100	500	-73	260	
A603	Alum.	A	2.0	0.052	2.0	0.051	4.0	0.102	55	606	20	3.6	8	—	—	-40	250	-40	121	
A662	Alum.	A	3.0	0.076	2.0	0.051	5.0	0.127	65	717	45	8.0	18	—	—	-40	250	-40	121	
26020	Alum.	S	5.0	0.127	3.0	0.076	8.0	0.203	95	991	80	14.5	10	—	—	-100	500	-73	260	
FOIL—COPPER																				
C661	Copper	A	1.5	0.038	2.0	0.051	3.5	0.089	80	882	70	12.7	<16	—	—	-40	250	-40	121	
C665	Copper	A	1.5	0.038	2.0	0.051	3.5	0.089	35	386	90	16.0	—	—	—	-40	250	-40	121	
SILICONE RUBBER SNS®																				
100S	Or./Tan	S							15	165	—	—	—	—	180	-100	500	-73	260	UL File MH12835
200A	Or./Tan	A							30	331	—	—	—	—	155	-20	325	-29	163	
300AR	Blue	A	SEE "CHART 1 THICKNESS" BELOW						30	331	—	—	—	—	155	-20	325	-29	163	Fiberglass Reinforced
440S	Gray	S							15	165	—	—	—	—	180	-100	500	-73	260	
440A	Gray	A							30	331	—	—	—	—	155	-20	325	-29	163	
512AF	Gray	A							30	331	—	—	—	—	155	-20	325	-29	163	Backing conforms to UL 94 VO UL File MH12835

CHART 1 THICKNESS SNS

	440A 440S	100S 200A 300AR	512AF	Roll Length
1/32" (0.79mm)	X			20
1/16" (1.59mm)		X	X	10
3/32" (2.38mm)		X	X	10
1/8" (3.18mm)		X	X	10
3/16" (4.76mm)		X	X	5
1/4" (6.35mm)			X	5

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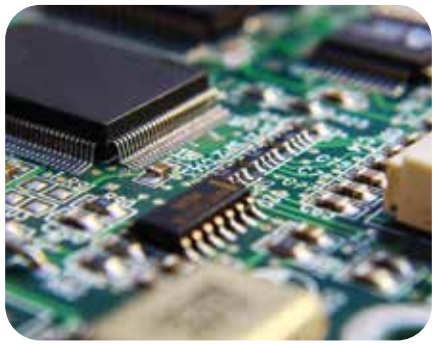
Markets / Applications



Aerospace & Defense

- Paint Masking
- Composite Molding
- Wire Harness
- Heat Shielding & Thermal Insulation

Industrial

- Appliances
- Electrical Equipment: Motors, Generators & Transformers
- Chemical Processing
- Thermal Spray
- Plastic Heat Sealing
- Non-stick and Low Friction Surfaces

Automotive

- Paint Masking
- Noise, Vibration & Harshness
- Heat Shielding & Thermal Insulation
- Electrical Insulation

Electronics

- Wire & Cable Insulation
- Printed Circuit Board Masking
- Semiconductor Masking
- EMI/RFI Shielding

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