

Saint-Gobain Performance Plastics is a world leader in the production of differentiated products based in polymer and fluoropolymer technology with our family of acquisitions that includes Furon, Norton, Chemfab and Norwood. Saint-Gobain offers a wide range of non-adhesive products including PTFE and silicone-coated fabrics, belting, fluoropolymer films, release liners and foams.

These engineered products are used primarily by OEM servicing industries such as fuel processing, transportation, electronics, healthcare, construction, packaging and industrial equipment. Our combined expertise in fabrics, films, foams and coatings gives you confidence in our team approach to providing solutions to critical applications.

Contact your nearest Saint-Gobain Performance Plastics representative for more details.

DISTRIBUTED BY:

**Limited Warranty:** For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**NOTE:** Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.

**Saint-Gobain Performance Plastics Corporation**

14 McCaffrey Street  
Hoosick Falls, NY 12090-0320  
Tel: (518) 686-7301  
Fax: (518) 686-4840  
[www.fff.saint-gobain.com](http://www.fff.saint-gobain.com)  
[www.chrtape.com](http://www.chrtape.com)



**CHR<sup>®</sup>**  
A Saint-Gobain Brand

Saint-Gobain  
Performance  
Plastics  
Pressure-Sensitive  
Adhesive Tapes

**SAINT-GOBAIN**  
PERFORMANCE PLASTICS

**SAINT-GOBAIN**  
PERFORMANCE PLASTICS

# TABLE OF CONTENTS

## ELECTRONIC ASSEMBLY AND FABRICATION

Polyester Film .....	1
Paper Composite .....	2
Polyimide Film.....	2

## ELECTRICAL INSULATION AND ISOLATION

Polyester Film (Insulation).....	4
Polyimide Film (Insulation) .....	4-5
Glass Cloth (Insulation) .....	6
PTFE Film (Insulation) .....	7
Copper and Aluminum Foil (Isolation).....	7

## HEAT SEALING

PTFE-Coated Glass Cloth .....	9-14
-------------------------------	------

## INDUSTRIAL SEAMING AND SPLICING

Polyester Film .....	15-16
----------------------	-------

## INDUSTRIAL NON-STICK

PTFE Film.....	17-18
UHMW Film .....	19
Rulon® Film .....	19

## GENERAL PURPOSE

Polyester Film .....	21-22
Glass Cloth .....	23
Polyimide Film.....	23

## AIRCRAFT-AEROSPACE

Polyester Film .....	25
PTFE Film.....	26
FEP Film .....	26
Aluminum Foil.....	26

## THERMAL SPRAY

Glass-Silicone Composite.....	28
Multi-Ply HVOF Composite .....	28
Glass-Foil Composite.....	29
Glass Cloth .....	29

## SPECIFICATIONS

Electronic Assembly and Fabrication .....	31
Electrical Insulation and Isolation.....	31
Heat Sealing.....	32
General Purpose .....	33
Aircraft-Aerospace .....	33
Thermal Spray .....	33

# ELECTRONIC ASSEMBLY AND FABRICATION

## Polyester Film

Polyester films have excellent dimensional stability, high tensile, tear, and impact strengths, and ultimate elongation up to 120% of their original dimensions. These films exhibit low water absorption and good resistance to oils, greases, strong acids, and organic solvents. They also retain electrical properties, dielectric strength and dielectric constant in continuous operating temperatures from -100°F to 350°F (-73°C to 177°C).

**M717** Plater's tape is specially formulated and designed to withstand the harsh environments associated with tin lead stripping and gold finger plating. M717's highly conformable silicone adhesive prevents leakers and eliminates residue.

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

**M803** Plater's tape is designed for PCB fabricators during the solder mask over bare copper (SMOBC) process. Optimizing a construction of silicone adhesive/polyester backing for low cost, M803 provides full protection from plating solutions with reduced set-up time.

*Polyester PCB tapes are available in standard roll lengths of 144 yards (132m).*

Products	M717	M797	M803
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)
<b>Elongation %</b>	100	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	30 (276)	30 (276)	25 (276)
<b>Thickness mil (mm)</b>			
<i>Total</i>	3.8 (.097)	3.0 (.076)	3 (.076)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)
<b>Adhesive Type</b>	S	R	S
<b>Color</b>	Red	Mustard	Blue

## Paper Composite

The ideal choice for die- and kiss-cutting, paper liners have the advantage of low cost and excellent release characteristics.

**C663** High temperature paper laminate tape with silicone adhesive for printed circuit board masking, hot air leveling and wave solder.

Product	C663
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	60 (661)
<b>Thickness mil (mm)</b>	
<i>Total</i>	9.5 (661)
<i>Backing</i>	6.5 (.241)
<b>Adhesive Type</b>	S
<b>Color</b>	Red

## Polyimide Film

Polyimide films are employed because of their extreme heat resistance. Service temperatures range from -100°F to 500°F (-73°C to 260°C). These flame-retardant films exhibit high tensile strength and conformability, good solvent resistance, excellent dielectric strength and good abrasion resistance.

**K290ESD** Anti-static polyimide tape to avoid zapping of the stuffed electronic components.

Product	K290ESD
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	30 (5.4)
<b>Elongation %</b>	50
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	20 (200)
<b>Thickness mil (mm)</b>	
<i>Total</i>	2.7 (.069)
<i>Backing</i>	1 (.025)
<b>Adhesive Type</b>	S
<b>Color</b>	Amber

## ELECTRONIC ASSEMBLY AND FABRICATION TAPE SAMPLES

M717

M797

M803

C663

K290ESD

# ELECTRICAL INSULATION TAPES

## Polyester Film

Polyester tapes are manufactured from electrical-grade polyester film, providing excellent electrical properties and high dielectric strength. These tapes provide an economical method to hold, identify, insulate and protect, and have applications in the electrical market for coil, transformer or capacitor wrapping. Available in a variety of colors and widths. Standard length 72-yard roll (66m). All have a direct electrolytic corrosion factor of 1.0.

**Organic** rubber pressure-sensitive adhesive offers excellent tack and can be thermoset for increased adhesion and solvent resistance. Insulation class for each product following is 130°C (266°F).

Products	M54	M60	M97	M765
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)
<b>Elongation %</b>	100	100	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	45 (496)	30 (331)	35 (386)	25 (276)
<b>Thickness mil (mm)</b>				
<i>Total</i>	2.5 (.064)	2.5 (.064)	2.5 (.064)	2.5 (.064)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)	2 (.051)
<b>Color</b>	Yellow	Clear	Yellow	White
<b>Features</b>			Printable	Flame-Retardant Printable

## Polyimide Film

CHR developed high-performance polyimide film tapes for the electronic assembly market. Primary applications include protecting printed circuit board connector fingers and other specific areas during wave soldering and hot air leveling. This tape family offers excellent conformability, solvent resistance and a tough and flexible construction. Available in 36-yard rolls (33m).

Products	K100	K102	K103	K104	K250
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	30 (5.4)	30 (5.4)	30 (5.4)	10 (1.8)	25 (4.5)
<b>Elongation %</b>	50	50	50	25	50
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	20/20 (220/220)	30 (331)	25 (276)	15 (165)	20 (220)
<b>Thickness mil (mm)</b>					
<i>Total</i>	4.5 (.114)	2.5 (.064)	2.5 (.064)	1.5 (.038)	2.7 (.069)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)	.5 (.013)	1 (.025)
<b>Dielectric Strength</b> volts	7500	7000	7000	4000	7000
<b>Insulation Class</b> °C (°F)	180 (356)	155 (311)	155 (311)	180 (356)	180 (356)
<b>Adhesive Type</b>	S/S	A	A	S	S
<b>Features</b>	Adhesive 2 Sides		Flame- Retardant		Flame- Retardant

Products	K350	2345-1	2345-2
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	50 (9)	30 (5.4)	50 (9)
<b>Elongation %</b>	75	50	75
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	20 (220)	25 (276)	25 (276)
<b>Thickness mil (mm)</b>			
<i>Total</i>	3.5 (.089)	2.5 (.064)	3.5 (.089)
<i>Backing</i>	2 (.051)	1 (.025)	2 (.051)
<b>Dielectric Strength</b> volts	10,000	6500	10,000
<b>Insulation Class</b> °C (°F)	180 (356)	180 (356)	180 (356)
<b>Adhesive Type</b>	S	S	S
<b>Features</b>	Flame- Retardant		

## Glass Cloth

Glass cloth offers excellent abrasion resistance and mechanical properties, as well as high tensile strength and extreme temperature resistance. Service temperatures range from -100°F to 500°F (-73°C to 260°C). Highly conformable and flexible, glass cloth has the unique ability to absorb insulating varnishes, which makes these tapes an excellent choice in the electrical market. Applications include electrical insulation, coil and motor wrappings, and general industrial applications.

**G551** With rubber thermosetting adhesive, G551 completes the triad of glass cloth tapes for all 3 UL classes (G565 at 180°C, G569 at 155°C and G551 at 130°C). Thermosetting properties afford solvent resistance and component compatibility with aggressive quick grab.

**G565** This high temperature, silicone adhesive general-purpose tape satisfies the requirements of most industrial needs. UL recognized as flame-retardant.

**G569** With acrylic adhesive, G569 has superior flagging resistance and excellent conformability. Its solvent resistance and high strength/weight ratio make it an excellent choice for coil and motor applications.

Products	G551	G565	G569
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	150 (26.8)	150 (26.8)	150 (26.8)
<b>Elongation %</b>	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (551)	35 (386)	30 (331)
<b>Thickness mil (mm)</b>			
<i>Total</i>	7 (.178)	7.3 (.185)	7 (.178)
<i>Backing</i>	4.5 (.114)	4.5 (.114)	4.5 (.114)
<b>Dielectric Strength</b> volts	4000	3500	3000
<b>Insulation Class</b> °C (°F)	130 (266)	180 (356)	155 (311)
<b>Adhesive Type</b>	R	S	A
<b>Roll Length</b> <i>yds (m)</i>	60 (55)	36 (33)	60 (55)
<b>Color</b>	White	White	White

## PTFE Film

PTFE films have high temperature resistance and are virtually unaffected by all chemicals. At elevated temperatures, PTFE film still retains excellent tensile strength. Service temperatures range from -100°F to 500°F (-73°F to 260°C).

Products	HM350	2045-2
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	15 (2.7)
<b>Elongation %</b>	150	325
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	30 (331)
<b>Thickness mil (mm)</b>		
<i>Total</i>	3.5 (.089)	3.5 (.089)
<i>Backing</i>	2 (.051)	2 (.051)
<b>Adhesive Type</b>	S	S
<b>Color</b>	White	Gray

## ELECTRICAL ISOLATION

### Aluminum and Copper Foil

Aluminum and copper foil tapes offer high conformability, conductivity, and reflectivity at elevated temperatures. Aluminum is available with a fiberglass laminate for applications requiring higher tear strengths. Service temperatures range from -100°F to 500°F (-73°C to 260°C). Applications include thermal spray, aircraft repainting, EMI/RFI shielding, and electroplating.

Products	A662	C665
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	45 (8.0)	90 (16)
<b>Elongation %</b>	18	—
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	65 (717)	35 (386)
<b>Thickness mil (mm)</b>		
<i>Total</i>	5.0 (.127)	3.5 (.089)
<i>Backing</i>	3.0 (.076)	1.5 (.038)
<b>Adhesive Type</b>	A	A
<b>Color</b>	Aluminum	Copper

## ELECTRICAL INSULATION AND ISOLATION TAPE SAMPLES

M54

M60

M97

M765

K102

K104

K250

2345-2

G565

G569

HM350

2045-2

A662

C665

## HEAT SEALING

### PTFE-Coated Glass Cloth

PTFE-coated glass cloth provides dimensional stability, high tensile strength and edge tear, operates over a temperature range from -100°F to 500°F (-73°C to 260°C), and offers better abrasion resistance than uncoated glass cloth. The PTFE surface offers quick release and chemical resistance characteristics. Anti-static PTFE glass yields improved thermal conductivity and static dissipation. Available with silicone or acrylic adhesives, PTFE glass applications include heat sealing and low friction release surface liners for conveyors.

#### Premium

Products	SG03-3	SG03-5	SG03-6	SG03-10	SG03-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	175 (31.2)	175 (31.2)	250 (44.6)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	40 (442)	55 (607)	55 (607)	70 (773)	70 (773)
<b>Thickness mil (mm)</b> <i>Total</i>	4.7 (.118)	6.7 (.170)	7.7 (.194)	11.7 (.297)	15.7 (.399)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	A	A	A	A	A
<b>Color</b>	Brown	Brown	Brown	Brown	Brown

Products	SG05-3	SG05-5	SG05-6	SG05-10	SG05-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	175 (31.2)	175 (31.2)	250 (44.6)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	45 (497)	55 (607)	55 (607)	60 (662)	65 (718)
<b>Thickness mil (mm)</b> <i>Total</i>	4.7 (.118)	6.7 (.170)	7.7 (.194)	11.7 (.297)	15.7 (.399)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	S	S	S	S	S
<b>Color</b>	Brown	Brown	Brown	Brown	Brown

**Premium (continued)**

Products	SG06-3	SG06-5	SG06-6	SG06-10	SG06-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	175 (31.2)	175 (31.2)	250 (44.6)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	35 (386)	45 (497)	45 (497)	55 (607)	60 (662)
<b>Thickness mil (mm)</b>					
<i>Total</i>	4.7 (.118)	6.7 (.170)	7.7 (.194)	11.7 (.297)	15.7 (.399)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	S	S	S	S	S
<b>Color</b>	Brown	Brown	Brown	Brown	Brown

**High-Performance**

Products	SG13-3	SG13-5	SG13-6	SG13-10	SG13-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	325 (58)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	60 (662)	70 (773)	75 (828)	70 (773)	70 (773)
<b>Thickness mil (mm)</b>					
<i>Total</i>	5 (.127)	7 (.178)	8 (.203)	12.3 (.312)	16.3 (.414)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	A	A	A	A	A
<b>Color</b>	Natural	Natural	Natural	Natural	Natural

Products	SG15-3	SG15-5	SG15-6	SG15-10	SG15-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	325 (58)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	60 (662)	65 (718)	80 (883)	80 (883)
<b>Thickness mil (mm)</b>					
<i>Total</i>	5.3 (.134)	7.3 (.185)	8.3 (.205)	12.5 (.318)	16.5 (.420)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	S	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural	Natural

**High-Performance (continued)**

Products	SG16-3	SG16-5	SG16-6	SG16-10	SG16-14
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	325 (58)	400 (71.4)
<b>Elongation %</b>	<5	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	60 (662)	65 (718)	80 (883)	80 (883)
<b>Thickness mil (mm)</b>					
<i>Total</i>	5.3 (.134)	7.3 (.185)	8.3 (.205)	12.5 (.318)	16.5 (.420)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	10 (.25)	14 (.35)
<b>Adhesive Type</b>	S	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural	Natural

**Primary**

Products	SG23-3	SG23-5	SG23-6	SG23-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	250 (44.6)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	60 (662)	70 (773)	75 (828)	70 (773)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5 (.127)	7 (.178)	8 (.188)	11.3 (.287)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	9 (.25)
<b>Adhesive Type</b>	A	A	A	A
<b>Color</b>	Natural	Natural	Natural	Natural

Products	SG25-3	SG25-5	SG25-6	SG25-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	250 (44.6)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	60 (662)	65 (718)	80 (883)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5.3 (.134)	7.3 (.185)	8.3 (.205)	11.5 (.293)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	9 (.25)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural

**Primary (continued)**

Products	SG26-3	SG26-5	SG26-6	SG26-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	90 (16.1)	150 (26.8)	150 (26.8)	250 (44.6)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	45 (497)	50 (552)	55 (607)	70 (773)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5 (.127)	7 (.178)	8 (.188)	11 (.280)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	9 (.25)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural

**Industrial**

Products	SG33-3	SG33-5	SG33-6	SG33-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	75 (13.4)	160 (28.6)	275 (49.1)	250 (44.6)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	60 (662)	70 (773)	75 (828)	70 (773)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5 (.127)	7 (.178)	8 (.188)	10.3 (.261)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	8 (.203)
<b>Adhesive Type</b>	A	A	A	A
<b>Color</b>	Natural	Natural	Natural	Natural

Products	SG35-3	SG35-5	SG35-6	SG35-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	75 (13.4)	160 (28.6)	275 (49.1)	275 (49.1)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	60 (662)	65 (718)	80 (883)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5.3 (.134)	7.3 (.185)	8.3 (.205)	10.5 (.267)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	8 (.203)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural

**Industrial (continued)**

Products	SG36-3	SG36-5	SG36-6	SG36-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	75 (13.4)	160 (28.6)	275 (49.1)	275 (49.1)
<b>Elongation %</b>	<5	<5	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	45 (497)	50 (552)	55 (607)	70 (773)
<b>Thickness mil (mm)</b>				
<i>Total</i>	5 (.127)	7 (.178)	8 (.188)	10 (.254)
<i>Backing</i>	3 (.076)	5 (.127)	6 (.152)	8 (.203)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Natural	Natural	Natural	Natural

Products	SGB6	SGC6
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	125 (22.3)	125 (22.3)
<b>Elongation %</b>	<5	<5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	45-55 (497-607)	45-55 (497-607)
<b>Thickness mil (mm)</b>		
<i>Total</i>	6.2 (.157)	6.2 (.157)
<i>Backing</i>	4.2 (.107)	4.2 (.107)
<b>Adhesive Type</b>	S	S
<b>Color</b>	Brown	Copper



## HEAT SEALING TAPE SAMPLES

SG0

SG1

SG2

SG3

SGB

SGC

## INDUSTRIAL SEAMING AND SPLICING

### Polyester Film

See description on page 2.

Products	M741	M751	M823	SP150-3
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)	30 (5.4)
<b>Elongation %</b>	100	100	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	25 (276)	30 (331)	30 (220)
<b>Thickness mil (mm)</b>				
<i>Total</i>	3 (.076)	3 (.076)	2.8 (.071)	2.5 (.064)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)	1 (.025)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Blue	Yellow	Blue	Red/Blue

## INDUSTRIAL SEAMING AND SPLICING TAPE SAMPLES

M741

M751

M823

SP150-3

## INDUSTRIAL NON-STICK

### PTFE Film

PTFE films have high temperature resistance and are virtually unaffected by all chemicals. At elevated temperatures, PTFE film still retains excellent tensile strength. Service temperatures range from -100°F to 500°F (-73°F to 260°C).

#### Skived

Products	2042-2	2042-5	T	TH
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	15 (2.7)	30 (5.4)	20 (3.6)	60 (10.8)
<b>Elongation %</b>	300	400	275	300
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	35 (441)	30 (331)	55 (606)
<b>Thickness mil (mm)</b>				
<i>Total</i>	3.5 (.089)	6.5 (.165)	6.0 (.152)	12.5 (.318)
<i>Backing</i>	2 (.051)	5 (.127)	3 (.076)	10 (.250)
<b>Adhesive Type</b>	A	A	S	S
<b>Color</b>	Gray	Gray	White	White

Products	2045-2	2045-3	2045-5	2045-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	15 (2.7)	20 (3.6)	30 (5.4)	60 (10.7)
<b>Elongation %</b>	325	350	400	450
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	30 (331)	35 (386)	40 (441)	50 (551)
<b>Thickness mil (mm)</b>				
<i>Total</i>	3.5 (.089)	4.5 (.114)	6.5 (.165)	11.5 (.292)
<i>Backing</i>	2 (.051)	3 (.076)	5 (.127)	10 (.25)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Gray	Gray	Gray	Gray

## High-Modulus

Products	2255-2	2255-5	HM350	HM650
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	30 (5.0)	60 (10.7)	25 (4.5)	45 (8.0)
<b>Elongation %</b>	150	275	150	200
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	30 (331)	40 (441)	25 (276)	30 (331)
<b>Thickness mil (mm)</b>				
<i>Total</i>	3.5 (.089)	6.5 (.165)	3.5 (.089)	6.5 (.165)
<i>Backing</i>	2 (.051)	5 (.127)	2 (.051)	5 (.127)
<b>Adhesive Type</b>	S	S	S	S
<b>Color</b>	Gray	Gray	White	White

Products	2275-2	2283-2	2285-2	2285-5
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	45 (8.0)	30 (5.0)	30 (5.0)	75 (13.0)
<b>Elongation %</b>	110	150	175	200
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	40 (441)	30 (331)	30 (331)	40 (441)
<b>Thickness mil (mm)</b>				
<i>Total</i>	4.2 (.107)	4 (.102)	3.5 (.089)	6.5 (.165)
<i>Backing</i>	2.3 (.051)	2 (.051)	2 (.051)	5 (.127)
<b>Adhesive Type</b>	S	A	S	S
<b>Color</b>	Rust	Rust	Rust	Rust

## UHMW Film

UHMW polyethylene film tape provides anti-sticking and abrasion resistance properties for application temperatures ranging from -100°F to 225°F (-73°C to 107°C). Applications include bearings and chute and guide rail coverings.

Products	2300-5R	2300-10R	2302-5R	2302-10R
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	40 (7.0)	80 (14.5)	40 (7.0)	80 (14.5)
<b>Elongation %</b>	350	400	350	425
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	55 (772)	55 (606)	45 (496)	50 (551)
<b>Thickness mil (mm)</b>				
<i>Total</i>	7 (.178)	12 (.305)	6.5 (.165)	11.5 (.292)
<i>Backing</i>	5 (.127)	10 (.25)	5 (.127)	10 (.25)
<b>Adhesive Type</b>	R	R	A	A
<b>Color</b>	Natural	Natural	Natural	Natural

## Rulon® Film

Rulon films offer superior abrasion resistance when compared to conventional PTFE films. Service temperatures range from -100°F to 500°F (-73°C to 260°C). In rotating bearing tests, it provided a 500-fold increase in wear resistance over standard PTFE. Applications include bearing liners and chute and guide rail coverings.

Products	RU	RU101
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	20 (3.6)	20 (3.6)
<b>Elongation %</b>	225	225
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	20 (220)
<b>Thickness mil (mm)</b>		
<i>Total</i>	10 (.254)	10.3 (.262)
<i>Backing</i>	8 (.203)	8 (.203)
<b>Adhesive Type</b>	S	A
<b>Color</b>	Rose	Rose

## INDUSTRIAL NON-STICK TAPE SAMPLES

2042  
  
T  
  
TH  
  
2045  
  
2255  
  
2275  
  
2285  
  
HM350  
  
HM650  
  
2300  
  
2302  
  
RU  
  
RU101

## GENERAL PURPOSE

### Polyester Film

See description on page 2.

Products	M50	M52	M60	M66	M69
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)
<b>Elongation %</b>	100	100	100	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	30 (331)	30 (331)	25 (276)	30 (331)
<b>Thickness mil (mm)</b>					
<i>Total</i>	2.7 (.069)	2.5 (.064)	2.5 (.064)	2.5 (.064)	4 (.102)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)	1 (.025)	1 (.025)
<b>Adhesive Type</b>	S	S	A	S	A/A
<b>Color</b>	White	Clear	Clear	Green	Clear

Products	M97	M98	M99	M705	M730
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	50 (8.9)	50 (8.9)	25 (4.5)	35 (6.3)
<b>Elongation %</b>	100	120	120	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	35 (386)	18 (198)	40 (441)	30 (331)	25 (276)
<b>Thickness mil (mm)</b>					
<i>Total</i>	2.5 (.064)	3.8 (.097)	3.5 (.089)	2.5 (.064)	2.5 (.064)
<i>Backing</i>	1 (.025)	2 (.051)	2 (.051)	1 (.025)	1 (.025)
<b>Adhesive Type</b>	A	S	A	A	S
<b>Color</b>	Yellow	Blue	Yellow	Black	Green

Products	M741	M746	M751	M758	M765
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)
<b>Elongation %</b>	100	100	100	100	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	13 (143)	25 (276)	25 (276)	25 (276)
<b>Thickness mil (mm)</b>					
<i>Total</i>	3 (.076)	1.8 (.046)	3 (.076)	2.5 (.064)	2.5 (.064)
<i>Backing</i>	1 (.025)	1 (.025)	1 (.025)	1 (.025)	1 (.025)
<b>Adhesive Type</b>	S	S	S	S	R
<b>Color</b>	Blue	Rd/Bl/Clr	Yellow	Black	White

Products	M783	M797	M851	M852	M855
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	50 (8.9)	25 (4.5)	25 (4.5)	50 (8.9)	100 (17.9)
<b>Elongation %</b>	120	100	100	120	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	35 (386)	30 (331)	15 (165)	15 (165)	6 (65)
<b>Thickness mil (mm)</b>					
<i>Total</i>	3.7 (.094)	3 (.076)	3 (.076)	4 (.102)	7 (.178)
<i>Backing</i>	2 (.051)	1 (.025)	1 (.025)	2 (.051)	5 (.127)
<b>Adhesive Type</b>	R	R	R	R	R
<b>Color</b>	Pink	Mustard	Green	Green	Green

Products	M887	M897
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)
<b>Elongation %</b>	120	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	40 (441)	20 (220)
<b>Thickness mil (mm)</b>		
<i>Total</i>	3.5 (.089)	3 (.076)
<i>Backing</i>	2 (.051)	1 (.025)
<b>Adhesive Type</b>	S	R
<b>Color</b>	Emerald	Olive

## Glass Cloth

See description on page 7.

Products	G551	2911-7	2916-7
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	150 (26.8)	165 (29.0)	165 (29.0)
<b>Elongation %</b>	<5	>5	>5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (551)	45 (496)	45 (496)
<b>Thickness mil (mm)</b>			
<i>Total</i>	7 (.178)	7 (.178)	7 (.178)
<i>Backing</i>	4.5 (.114)	4.5 (.114)	4.5 (.114)
<b>Adhesive Type</b>	R	S	S
<b>Color</b>	White	White	White

## Polyimide Film

See description on page 5.

Products	K100	K102	K104	K201	K202
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	30 (5.4)	30 (5.4)	10 (1.8)	30 (5.4)	50 (8.9)
<b>Elongation %</b>	50	50	25	50	75
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	20 (220)	30 (331)	15 (165)	30 (331)	25 (276)
<b>Thickness mil (mm)</b>					
<i>Total</i>	4.5 (.114)	2.5 (.064)	1.5 (.038)	2.5 (.064)	3.5 (.089)
<i>Backing</i>	1 (.025)	1 (.025)	.5 (.013)	1 (.025)	2 (.051)
<b>Adhesive Type</b>	S/S	A	S	S	S
<b>Color</b>	Amber	Amber	Amber	Amber	Amber

## GENERAL PURPOSE TAPE SAMPLES

M-Series

G-Series

K-Series

## AIRCRAFT-AEROSPACE

### Polyester Film

Tapes used in aircraft/aerospace applications withstand the temperatures and pressures of composite bonding cycles. They can be used to protect tool surfaces from abuse and adhesive flash as well as position and hold the composite lay-up prior to vacuum bag sealing. Flash masking tapes are available with either silicone or non-silicone adhesive, allowing easy removal without residue. Tough constructions resist damage and will not mar parts or tools.

When used as a harness wrap, these tapes provide ease of installation by sliding smoothly through the fuselage. Various thicknesses and properties provide high conformability, abrasion resistance, high dielectric strength, printability and flame retardance.

Products	M730	M741	M783	M803
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	35 (6.3)	25 (4.5)	50 (8.9)	25 (4.5)
<b>Elongation %</b>	100	100	120	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	25 (276)	35 (386)	25 (276)
<b>Thickness mil (mm)</b>				
<i>Total</i>	2.5 (.064)	3.0 (.076)	3.7 (.094)	3.0 (.076)
<i>Backing</i>	1.5 (.025)	1 (.025)	2 (.051)	1 (.025)
<b>Adhesive Type</b>	S	S	R	S
<b>Color</b>	Green	Blue	Pink	Blue

Products	M823	M851	M852	M855
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	50 (8.9)	100 (17.9)
<b>Elongation %</b>	100	100	120	100
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	30 (331)	15 (165)	15 (165)	6 (67)
<b>Thickness mil (mm)</b>				
<i>Total</i>	2.8 (.071)	3.0 (.076)	4.0 (.102)	7.0 (.178)
<i>Backing</i>	1 (.025)	1 (.025)	2.0 (.051)	5 (.127)
<b>Adhesive Type</b>	A	R	R	R
<b>Color</b>	White	Green	Green	Green

## PTFE Film

See description on page 8.

Products	HM350	HM426	HM430	HM650
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	25 (4.5)	25 (4.5)	25 (4.5)	45 (8)
<b>Elongation %</b>	150	150	150	200
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	25 (276)	25 (276)	25 (276)	30 (331)
<b>Thickness mil (mm)</b>				
<i>Total</i>	3.5 (.089)	3.5 (.089)	3.5 (.089)	6.5 (.165)
<i>Backing</i>	2 (.051)	2.05 (.064)	2 (.051)	5 (.127)
<b>Adhesive Type</b>	S	S	A	S
<b>Color</b>	White	Gray	White	White

## FEP Film

FEP film applications include high temperature coil and capacitor wrapping, composite bonding, masking and conveyor release linings.

## Aluminum Foil

Aluminum foil tape (A602) meets LT80B specifications for masking of aircraft for bead blast cleaning and chemical etch preparations and for paint masking.

Products	C	A602
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	8 (1.4)	20 (3.6)
<b>Elongation %</b>	275	≤8
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	20 (220)	60 (661)
<b>Thickness mil (mm)</b>		
<i>Total</i>	3.5 (.076)	4 (.102)
<i>Backing</i>	2 (.051)	2 (.052)
<b>Adhesive Type</b>	S	S
<b>Color</b>	Clear	Alum.

## AIRCRAFT-AEROSPACE TAPE SAMPLES

M-Series

HM350

HM426

HM430

HM650

C

A602

# THERMAL SPRAY

## Glass-Silicone Composite

Top layer of silicone rubber for extra protection at extremely high temperatures of thermal spray. Can be pre-cut to specified shape for frequently sprayed aircraft engine parts. Heavy-duty 23816 designed for one-step wrap for both grit blasting and thermal spray.

Products	23816	2965-8R	2975-8R
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	100 (18.0)	100 (18.0)	150 (27.0)
<b>Elongation %</b>	—	15	5
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	45 (496)	50 (552)
<b>Thickness mil (mm)</b>			
<i>Total</i>	12 (.305)	10.5 (.267)	10.5 (.267)
<i>Backing</i>	8 (.203)	7 (.178)	7 (.178)
<b>Adhesive Type</b>	S	S	S
<b>Color</b>	White	Blue	White

## Multi-Ply HVOF Composite

Heavy-duty, multi-ply tapes are produced by combining existing CHR® thermal spray tapes to achieve ultimate masking properties under extreme conditions, like HVOF. H7525 is 2975-8R and 2925-7 (the addition of an aluminum foil layer for conformability and heat dissipation); H7575 is two layers of standard 2975-8R; and H6595 is 2965-8R combined with 2995-11 (the addition of a heavy aluminum foil layer for even more heat dispersion and rigidity).

Products	H7525	H7575	H6595
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	125 (22.0)	180 (32.7)	125 (22.0)
<b>Elongation %</b>	—	—	—
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	50 (552)	50 (552)	50 (552)
<b>Thickness mil (mm)</b>			
<i>Total</i>	17.5 (.445)	21 (.553)	22 (.558)
<i>Backing</i>	15 (.38)	17.5 (.44)	18.5 (.47)
<b>Adhesive Type</b>	S	S	S
<b>Color</b>	White	White	Blue

## Glass-Foil Composite

Fiberglass reinforced aluminum foil tape with silicone adhesive. Offers heat reflective surface and high conformability. Available in 36-yard rolls (33m).

Products	2925-7	2925-11
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	130 (23.6)	200 (35.7)
<b>Elongation %</b>	7	7
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	60 (661)	75 (827)
<b>Thickness mil (mm)</b>		
<i>Total</i>	7 (.178)	11 (.279)
<i>Backing</i>	2.5 (.064)	7.5 (.191)
<b>Adhesive Type</b>	S	S
<b>Color</b>	Alum.	Alum.

## Glass Cloth

See description on page 7.

Products	2905-7R	2905-10R	2915-7	2915-10
<b>Tensile Strength</b> <i>lbs/in (kg/cm)</i>	175 (31.3)	225 (40.2)	160 (26.8)	175 (31.3)
<b>Elongation %</b>	<10	<10	<10	<10
<b>Adhesion to Steel</b> <i>oz/in (gm/cm)</i>	40 (441)	25 (276)	40 (441)	40 (441)
<b>Thickness mil (mm)</b>				
<i>Total</i>	7 (.178)	10.5 (.267)	7 (.178)	10 (.254)
<i>Backing</i>	4.5 (.114)	6.5 (.165)	4.5 (.114)	5.5 (.140)
<b>Adhesive Type</b>	S/S	S/S	S	S
<b>Color</b>	White	White	White	White



## THERMAL SPRAY TAPE SAMPLES

23816

2965

2975

H7525

H7575

H6595

2905

2915

## SPECIFICATIONS

### ELECTRONIC ASSEMBLY AND FABRICATION

<b>M717</b>	Clean Release Silicone (CRS) Adhesive
<b>M803</b>	Clean Release Silicone (CRS) Adhesive
<b>C663</b>	Static Dissapative
<b>K290ESD</b>	Static Dissapative

### ELECTRICAL INSULATION POLYESTER

<b>M54</b>	MIL-I-15126F-MFT2.5
<b>M60, M97</b>	MIL-I-15126F-MFT2.5

### ELECTRICAL INSULATION POLYIMIDE

<b>K102</b>	Clean Release Silicone (CRS) Adhesive
<b>K250, K350</b>	UL Guide OANZ2, File E51201
<b>K250</b>	CSA Standard C22.2 Class 9052.30
<b>2345-1</b>	UL Guide OANZ2, File E66639
<b>2345-2</b>	UL510, File E66639

### ELECTRICAL INSULATION GLASS CLOTH

<b>G565, G569</b>	UL Guide OANZ2, File E51201
<b>G565, G569</b>	CSA Standard C22.2, Class 9052.30

### ELECTRICAL INSULATION PTFE

<b>HM350, 2255-2</b>	MIL-I-123594C Type 1, Class 1, A-A-59474
----------------------	---

### ELECTRICAL ISOLATION COPPER FOIL

<b>C665</b>	UL Guide OANZ2, File E51201, UL510
<b>C665</b>	Conductive Adhesive

# SPECIFICATIONS

## HEAT SEALING PTFE-COATED GLASS CLOTH (Premium)

**SG03-3, SG03-5, SG03-6** 21CFR175.105 and 21CFR177.1550 compliant  
**SG03-10, SG03-14**

**SG05-3, SG05-5, SG05-6** 21CFR175.105 and 21CFR177.1550 compliant  
**SG05-10, SG05-14**

**SG06-3, SG06-5, SG06-6** 21CFR175.105 and 21CFR177.1550 compliant  
**SG06-10, SG06-14**

## HEAT SEALING PTFE-COATED GLASS CLOTH (High-Performance)

**SG13-3, SG13-5, SG13-6** 21CFR177.1550 compliant  
**SG13-10, SG13-14**

**SG15-3, SG15-5, SG15-6** 21CFR177.1550 compliant  
**SG15-10, SG15-14**

**SG16-3, SG16-5, SG16-6** 21CFR177.1550 compliant  
**SG16-10, SG16-14**

## HEAT SEALING PTFE-COATED GLASS CLOTH (Primary)

**SG23-3, SG23-5, SG23-6** 21CFR177.1550 compliant  
**SG23-10**

**SG25-3, SG25-5, SG25-6** 21CFR177.1550 compliant  
**SG25-10**

**SG26-3, SG26-5, SG26-6** 21CFR177.1550 compliant  
**SG26-10**

## HEAT SEALING PTFE-COATED GLASS CLOTH (Industrial)

**SG33-3, SG33-5, SG33-6** 21CFR177.1550 compliant  
**SG33-10**

**SG35-3, SG35-5, SG35-6** 21CFR177.1550 compliant  
**SG35-10**

**SG36-3, SG36-5, SG36-6** 21CFR177.1550 compliant  
**SG36-10**

## GENERAL PURPOSE POLYESTER

**M52** UL Guide OANZ2, File ES1201, UL510

**M60** UL Guide OANZ2, File ES1201,  
MIL-I-15126-MF25

**M69** Available Only with Liner

**M97** MIL-I-15126-MF25 UL Guide OANZ2,  
File ES1201

**M705** UL Guide OANZ2, File ES1201

**M765** UL Guide OANZ2, File ES1201, UL510

## GENERAL PURPOSE GLASS CLOTH

**G551** UL Guide OANZ2, File ES1201

## GENERAL PURPOSE POLYIMIDE

**K102** Clean Release Silicone (CRS) Adhesive

## AIRCRAFT-AEROSPACE POLYESTER

**M823** Silicone Coating Backing

**A602** Meets LT80B specifications for  
masking of aircraft for bead blast  
cleaning and chemical etch preparations  
and for paint masking.

## THERMAL SPRAY GLASS CLOTH

**2905-7R, 2905-10R** Available Only with Liner

**2915-7, 2915-10** MIL-I-19166C

## THERMOSET CYCLE

**Rubber and** 3 hours @ 120°C (248°F)

**Acrylic PSA** 2 hours @ 135°C (275°F)

1 hour @ 150°C (302°F)