

TACONIC

PTFE COMPOSITE MATERIAL PRODUCT BROCHURE 2023



Imported by :

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FABRIC



- Excellent Temperature Resistance (-73~+260°C)
- Excellent Chemical Resistance
- Excellent Release Performance (Non-stick)
- Excellent Dimensional Stability

SUBSTRATE & TYPES

- Glass Fabric, Mesh Glass Fabric, Kevlar, Polyimide
- Crease and Tear Resistance Series
- Anti-Static Series

PTFE COATED GLASS FABRIC SERIES

Series No	Standard Width (m)	Nominal Thickness (μm)	Weight (g/m ²)	PTFE Content (%)	Tensile Strength (N/5mm)
7195P	3.1	670	520	21	3500
7305	2.0, 2.5, 2.8, 3.2, 3.3	980	460	32	2400
7305AS	2.0	950	460	32	2000

CREASE AND TEAR RESISTANCE SERIES

Series No	Standard Width (m)	Nominal Thickness (μm)	Weight (g/m ²)	PTFE Content (%)	Tensile Strength (N/5mm)	Dielectric Breakdown (V)
9054	1	126	255	57	1400	2500

PTFE COATED GLASS FABRIC SERIES

Series No	Standard Width (m)	Nominal Thickness (μm)	Weight (g/m ²)	PTFE Content (%)	Tensile Strength (N/5mm)	Dielectric Breakdown (V)
2038	1.0	68	125	62	500	1000
4058ACD	1.0	110	220	52	800	1500
5038	1.0	73	135	64	700	1400
5108ACD	1.0	215	445	55	2000	4000
7149TC	2.4	350	740	60	3000	2800

ANTI-STATIC SERIES

Series No	Standard Width (m)	Nominal Thickness (μm)	Weight (g/m ²)	PTFE Content (%)	Tensile Strength (N/5mm)	Surface Resistivity (M-ohms)
7143AS	1.0, 1.2	345	700	60	3000	<10

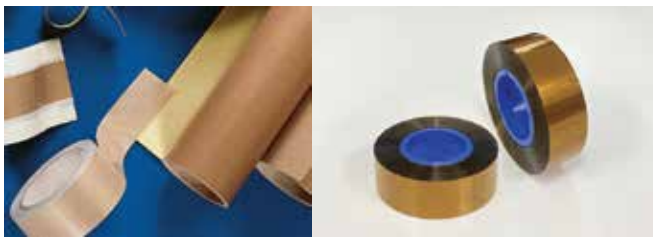
*The measurement values provided are based on general standards and are not guaranteed.

TAPE

SERIES

- PTFE Coated G/F Tape
- UHMW PE Tape
- Glass Fabric Tape
- Silmesh
- PTFE Film Tape

UHMW PE-TAPES Series No	Standard Width (mm)	Overall Thickness (mm)	Adhesive Thickness (mm)	180 Peel Adhesion Strength (gf/in.)	Tensile Strength (N/5)	Adhesive Type	Release Liner
6311-05	550	0.175	0.05	> 1000	> 50	Acrylic	Yes
6311-10	550	0.3	0.05	> 1000	> 100	Acrylic	Yes



TAC-TAPES

	Series No	Standard Width (mm)	Overall Thickness (mm)	Adhesive Thickness (mm)	180 Peel Adhesion Strength (gf/in.)	Release Liner
PTFE Coated Tapes (Premium Grade)	6095-05HSC	max. 500	0.18 (Nor)	0.05	>1000	No
PTFE Coated Glass Tapes (Standard Grade)	6085-03SW	max. 500	0.125 (Nor)	0.05	>700	No
	6085-05	1000	0.175 (Nor)	0.05	>1000	Yes
	6085-05SW	max. 500	0.175 (Nor)	0.05	>1000	No
	6085-10	1000	0.3 (Nor)	0.065	>1000	Yes
PTFE Coated Glass Tapes (Economic Grade)	6075-03	1000	0.125 (Nor)	0.05	>700	Yes

PROPERTY

	PTFE Coated G/F Tape	PTFE Film Tape	UHMW PE Tape	Glass Fabric Tape
Chemical Resistance	○○○	○○○	○○	○○○
Flexibility	○○○	○○○	○○	○○
Insulation	○○	○○○	○○○	○○
Smoothness & Flatness	○○	○○	○○	○○○
Release	○○	○○○	○○○	○○
Durability	○○○	○○○	○○○	○

○ Good ○○ Excellent ○○○ Outstanding

Film TAPES	Series No	Standard Width (mm)	Overall Thickness (mm)	Adhesive Thickness (mm)	180 Peel Adhesion Strength (gf/in.)	Elongation (%)	Release Liner
PTFE Skived Film Tape	6115-02W	500	0.088 (Nor)	0.038	>500	>150	No
PTFE Skived S&C Film Tape	6445-02	550	0.1 (Nor)	0.05	>700	>90	No

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SIL-MESH (Silicone Steaming Mat)



Series No	Standard Width (m)	Nominal Thickness (µm)	Weight (g/m ²)	PTFE Content (%)	Tensile Strength (N/5cm)	Surface Resistivity (M-ohms)
SIL MESH-23A	1.2	345	700	60	3000	<10

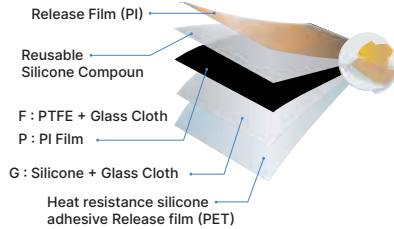
REUSABLE SILICONE TAPE

PROPERTY

- Maintains stable adhesion through 500 SMT cycles, ensuring reliable performance.
- Product maintains its shape well even at high temperatures, up to 260°C.
- Allows you to choose the desired adhesion level.
- Adhesion can be easily restored through simple cleaning.
- Superior surface flatness of the product allows for full-area fixation.

APPLICATION

- SMT process of Flexible PCB
- SMT process of Thun rigid PCB
- Carrier of LCD assembly process
- Flip chip mounting process
- Various temporary fixing application



Peel adhesiu of reusable silicone compound					
	10gf/25mm	30gf/25mm	40gf/25mm	130gf/25mm	300gf/25mm
Tacsil F20	Tacsil F20 LB	Tacsil F20 B	Tacsil F20 HB	Tacsil F20 H2B	Tacsil F20 H3B
Tacsil P20	Tacsil P20 L	Tacsil F20	Tacsil P20 HB		

COMPOSITE FILM

FOR SEMICONDUCTOR PROCESS

Excellent thermal and mechanical properties make it an ideal release film for 3D Memory chip stacking processes.

FOR HYDROGEN FUEL CELL PROCESS

- Uses one or both-sided PTFE coated PI film for casting proton exchange membranes.
- PI + One side PTFE Coating & PI + Both side PTFE Coating



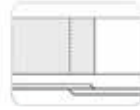
TPX-016P TYPICAL VALUES				
Property	Unit	Value#	Test Method	Features
Nominal Total Thickness	µm	28		
Material		PTFE+PI Film		
Total Coating Weight	g/m ²	42		• Excellent release property
Tensile Strength (Warp)	N/5cm	243	BS 3424 Part 4 Method 6	• Excellent thermal property
Elongation @break (Warp)	%	95	BS 3424 Part 4 Method 6	• Very low elongation
Adhesion Strength	N/5cm	18	BS 3424 Part 7	
Dielectric Breakdown Voltage	kV	6.9	BS 2782 Part 2 Method 220	

BELT



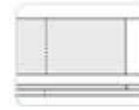
APPLICATION

- Screen Printing
- Aerospace
- Semi-conductor / E&E
- Plastics Processing
- Food Processing / QSR
- Carpet Fabrication



Scarfing

Belt ends are tapered to minimize thickness at the splices area, overlapped and heat sealed.



Two-Ply

Two plies or PTFE coated fiberglass are laminated together with staggered splices to provide a smooth, continuous thickness along the entire belt length.

VARIOUS SPLICES



SMART LOOP

Smart loop splices offer durability, flexibility and maximum airflow. A smart loop splice is recommended when maximum airflow is needed.



EDGE REINFORCEMENTS

Taconic belts can be supplied with strips of heat-sealed film or fabric on one or both edges of the belt to reduce fraying of belt edges which rub on guide rollers and also provides the strongest possible anchor for guiding pins, snaps and grommets.

	Series No	Standard Width (M)	Normal Thickness (mm)	Normal Weight (g/m ²)	Normal Tensile Strength (N/5cm)
PTFE Fabric Belt	8058	1	122	265	1300
	8108	1	235	490	2300
	8148	1	340	680	4200
Solar Laminate Release Belt	8103-3AS	1, 1.5	235	490	2300
	8143AS	1, 1.2	345	700	4200
Mesh Fabric Belt	8305	2, 2.5, 3.2, 3.3	980	460	2400 4*4 mesh
	8305AS	2, 2.5, 3.2, 4.8	950	460	1800 4*4 mesh

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ARCHITECTURAL FABRIC

PROPERTY

- Light weight and high strength
- Good durability (over 25 years)
- Self-Cleaning (Hydrophobic Surface)
- Good sound absorption (Solus 450A)
- Fire-Resistant
- Good light transmission



Gochuck Sky Dome, Korea



Fabric : Solus 1300, Solus450A



Wolgok Train Station, Korea
Fabric : Solus 1300

APPLICATION

- Convention Centers
- The Coal Storage Yard
- Airport & Railway Stations
- Multi-Purpose Stadium
- Hotels & Resorts
- Corporate Centers
- Government Centers



Ice Arena, Korea
Fabric : Solus 1300



Seongnam Stadium, Korea
Fabric : Solus 1300



Busan Wordcup Stadium, Korea
Fabric : Solus 1300

Series No.		Solus 450A	Solus 950	Solus 1110	Solus 1120	Solus 1300	Solus 1420	
Coating Material		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	
Glass Cloth		Woven "EC9"	Woven "EC6"	Woven "EC6"	Woven "EC3"	Woven "EC3"	Woven "EC6"	
	Unit	Values						Test Method
Coating Fabric Weight(nom.±5%)	g/m ²	415 +/- 100	950	1100	1100	1335	1400	DIN EN 22286
Thickness(nominal)	micron	0.32 +/- 0.1	540	600	620	800	950	DIN EN 22286
Tensile Strength								B53424
Warp (Nominal/min.)	N/5cm	3500	6000	6500	7300	7800	7800	Part 4
Fill (Nominal/min.)	N/5cm	2500	5300	5300	6000	6600	6900	Method 6 or DIN 53354
Strip Tensile-Wet								
Warp(min.)	N/5cm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Fill(min.)	N/5cm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Tear Strength								B57304
Warp (Nominal/min.)	N	210 / 130	360/275	360/275	360/330	430/350	580/500	Part 4
Fill (Nominal/min.)	N	150 / 90	400/275	400/275	400/330	460/350	680/500	B53424
Coating Adhesion (Nominal/min.)	N/5cm	n.a.	75/50	75/50	120/70	130/80	100/75	Part 7
Elongation at break(uniaxial)								
Warp	%	-	3~10	3~10	3~10	3~10	2~15	
Fill	%	-	5~17	5~17	5~17	5~16	3~17	
Solar Transmission(550nm)	%	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	VIT Test
Solar Transmission(nominal)	%	n.a.	15~25	15~25	15~25	7.5~17.5	3~23	ASTM E-424-71
Solar Reflectance(nominal)	%	n.a.	70~80	70~80	70~80	70~90	67~87	ASTM E-424-71
Width	m	1.5, 2.0, 2.4	2.95, 3.85	2.95, 3.85	2.95	2.85, 3.75	3.6	
Color	-	White(after exposure to sunlight)	White(after exposure to sunlight)	White(after exposure to sunlight)	White(after exposure to sunlight)	White(after exposure to sunlight)	White(after exposure to sunlight)	
Fire Performance								
Noncombustibility of Substrate		-	Pass	Pass	Pass	Pass	Pass	ASTM E-136
Intermittent Flame		-	Class A	Class A	Class A	Class A	Class A	ASTM E-108
Spread of Flame		-	Class A	Class A	Class A	Class A	Class A	
External Fire Exposure Roof Test		-	Class AA	Class AA	Class AA	Class AA	-	BS 476 : Part 3
Fire Propagation		-	Class 0	Class 0	Class 0	Class 0	-	BS 476 : Part 6
Spread of Flame		-	Class 1	Class 1	Class 1	Class 1	-	BS 476 : Part 7

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