

Dexnyl® TPI AURUM450 SF Film_16

Technical Data Sheet

Product Description -

TPI is a thermoplastic polyimide film that has excellent, thermal, chemical, electrical and physical properties. With a continuous use temperature to 240°C (465°F), TPI films offer superior radiation resistance, excellent wear performance and resistance to chemicals.

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.33		ASTM D792
Water Absorption (24 hr)	1.0	%	ASTM D570
Films	Typical Value	Unit	Test method
Film Thickness - Tested	100	µm	
Secant Modulus - MD	3050	MPa	ASTM D882
Tensile Strength - MD (Break)	104	MPa	ASTM D882
Tensile Elongation - MD			ASTM D882
Yield	7.0	%	
Break	190	%	
Dart Drop Impact	400	g	ASTM D1709
Area Factor	145	ft²/lb/mil	
Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	250	°C	ASTM D3418
Peak Melting Temperature	388	°C	ASTM D3418
Electrical	Typical Value	Unit	Test method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (0.100 mm)	160	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.50		ASTM D150
Dissipation Factor (1 kHz)	1.4E-3		ASTM D150
Flammability	Typical Value	Unit	Test method
Oxygen Index	47	%	ASTM D2863

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