

Ajedium™ Films -- Thermoplastic Polyimide

Thermoplastic Polyimide
Solvay Specialty Polymers

Message:

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.

General Information			
Features	Anti-gamma radiation		
	Good electrical performance		
	Good chemical resistance		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Aircraft applications		
	Industrial application		
	Application in Automobile Field		
	Oil/Gas Supplies		
	Medical/nursing supplies		
RoHS Compliance	RoHS compliance		
Appearance	Orange		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Water Absorption (24 hr)	1.0	%	ASTM D570
Films	Nominal 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	%	ASTM D882
Fracture	190	%	ASTM D882
Dart Drop Impact	400	g	ASTM D1709
Area coefficient	145	ft ² /lb/mil	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	250	°C	ASTM D3418
Peak Melting Temperature	388	°C	ASTM D3418
Electrical	Nominal 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	Nominal Value	Unit	Test Method
Oxygen Index	47	%	ASTM D2863
Additional Information			

Standard Thicknesses and Widths

Widths are available from 22" (559 mm) to 56" (1422 mm). Products with widths 56 inches are available upon request.

Tolerances for widths are +/- 4mm.

For PI film, the standard thicknesses are 25 microns (1 mil) to 1016 microns (40 mil).

Surface Finishes

Standard surface finish is P/M (polished / matte).

Custom finishes of P/P (polished / polished) and M/M (matte / matte) are available.

Packaging

Film is supplied in a roll form of high quality, cardboard core of 3" (76mm) or 6" (152mm).

PVC cores are available upon request in 3" and 6" sizes.

Labeling

Products are labeled to comply with national and international standards.

Labels include product grade, unique batch number, roll length, roll width, product thickness, and net weight.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

