

Solvay Specialty Polymers Ajedumâ„ç Film Thermoplastic Polyimide (PI, TP)

Category : Polymer , Film , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

TPI is a thermoplastic polyimide film that has excellent, thermal, chemical, electrical and physical properties. With a continuous use temperature to 240Â°C (465Â°F), TPI films offer superior radiation resistance, excellent wear performance and resistance to chemicals. Features: Flame Retardant; Good Chemical Resistance; Good Electrical Properties; High Heat Resistance; Radiation (Gamma) Resistant Uses: Aircraft Applications; Automotive Applications; Electrical/Electronic Applications; Industrial Applications; Medical/Healthcare Applications; Oil/Gas Applications Additional Properties: Area Factor - 145 ftÂ²/lb/mil Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ajedum-Film-Thermoplastic-Polyimide-PI-TP.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/inÂ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62
Thickness	100 microns	3.94 mil	As Tested

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	190 %	190 %	ASTM D882
Film Elongation at Yield, MD	7.0 %	7.0 %	ASTM D882
Secant Modulus, MD	3.05 GPa	442 ksi	ASTM D882
Dart Drop Test	400 g	0.882 lb	ASTM D1709
Film Tensile Strength at Break, MD	104 MPa	15100 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	388 Â°C	730 Â°F	ASTM D3418
Glass Transition Temp, Tg	250 Â°C	482 Â°F	DSC
Oxygen Index	47 %	47 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.5	2.5	ASTM D150

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	160 kV/mm	4060 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	
Dissipation Factor	0.0014	0.0014	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Orange	
RoHS Compliance	RoHS Compliant	

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