

Isoflon Polyester film

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Polyethylene terephthalate film is a flexible film with high mechanical resistance. An excellent insulator, it preserves all its properties in a wide range of temperatures (-70Â°C to +150Â°C). Available in a range of thicknesses from 1.5 Åµm to 480 Åµm. Excellent resistance to most chemical agents. Theoretically impermeable to nearly all reagents, solvents and lacquers. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-Polyester-film.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.395 g/cc	1.395 g/cc	
Water Absorption	<= 0.80 %	<= 0.80 %	ASTM D3418-82
Thickness	19.0 - 23.0 microns	0.748 - 0.906 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength	190 - 200 MPa	27600 - 29000 psi	ASTM D882-80
Elongation at Break	130 - 190 %	130 - 190 %	ASTM D882-80

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.150 W/m-K	1.04 BTU-in/hr-ftÂ²- Â°F	
Melting Point	250 - 258 Â°C	482 - 496 Â°F	
Shrinkage	3.5 - 4.5 % @Temperature 200 Â°C, Time 1800 sec	3.5 - 4.5 % @Temperature 392 Â°F, Time 0.500 hour	ASTM D1204-78

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2 @Frequency 1000 Hz	3.2 @Frequency 1000 Hz	ASTM D150-65
Dielectric Strength	200 kV/mm @Frequency 50.0 Hz, Temperature 150 Â°C	5080 kV/in @Frequency 50.0 Hz, Temperature 302 Â°F	ASTM D196-65
	280 kV/mm @Frequency 50.0 Hz, Temperature 25.0 Â°C	7110 kV/in @Frequency 50.0 Hz, Temperature 77.0 Â°F	ASTM D196-64

Dielectric Breakdown Electrical Properties	4000 - 17500 V Metric	4000 - 17500 V English	Minimum: ASTM D149 Comments
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Descriptive Properties	Value	Comments
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Fire Rating	94-VTM2	UL94 SVT Test Rating
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