

EPICHEM Epiryl B PPO Polyphenylene oxide

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epiryl-B-PPO-Polyphenylene-oxide.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792, ISO 1183
Water Absorption	<= 0.10 % @Temperature 23.0 °C	<= 0.10 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Index of Compound	10 - 20 g/10 min @Load 1.20 kg, Temperature 300 °C	10 - 20 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638, ISO R527
Elongation at Break	40 %	40 %	ASTM D638, ISO R527
Flexural Strength	80.0 MPa	11600 psi	ASTM D790, ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790, ISO 178
Izod Impact, Notched	1.25 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	2.34 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	1.80 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	3.37 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	2.30 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	4.31 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	>= 90.0 °C	>= 194 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648, ISO 75
	115 °C	239 °F	120°C/min; ASTM D1525/B, ISO

Vicat Softening Point Thermal Properties	Metric @Load 5.00 kg	English @Load 11.0 lb	306/B Comments
	124 °C @Load 0.999 kg	255 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Glow Wire Test	650 °C @Thickness 3.20 mm	1200 °F @Thickness 0.126 in	VDE 0471/P2-4, IEC 695
	650 °C @Thickness 2.00 mm	1200 °F @Thickness 0.0787 in	VDE 0471/P2-4, IEC 695

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	2.5 @Frequency 1000 Hz	2.5 @Frequency 1000 Hz	ASTM D150, IEC 250
Dielectric Strength	75.0 kV/mm	1910 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.0010 @Frequency 1000 Hz	0.0010 @Frequency 1000 Hz	ASTM D150, IEC 250
Comparative Tracking Index	290 V	290 V	VDE 0303-P1, IEC 112

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