

## EPICHEM Epiryl G2 PPO 20GF Polyphenylene oxide, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

### Material Notes:

Characteristics: 20% glass fibre filled

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EPICHEM-Epiryl-G2-PPO-20GF-Polyphenylene-oxide-20-Glass-Fiber.php](http://www.lookpolymers.com/polymer_EPICHEM-Epiryl-G2-PPO-20GF-Polyphenylene-oxide-20-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.20 - 1.25 g/cc	0.0434 - 0.0452 lb/in <sup>3</sup>	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	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785, ISO 2039/2
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM D638, ISO R527
Flexural Strength	140 MPa	20300 psi	ASTM D790, ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.600 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	1.12 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	0.700 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.31 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a
	0.700 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	1.31 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	>= 120 °C	>= 248 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ASTM D648, ISO 75
Vicat Softening Point	130 °C @Load 5.00 kg	266 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B

Thermal Properties	140 °C Metric	284 °F English	120°C/min: ASTM D1525/A, ISO 306/A Comments
	@Load 0.999 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.0	3.0	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.0030	0.0030	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	250 V	250 V	VDE 0303-P1, IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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