

Chevron Phillips Xtel® XE4050BL Polyphenylene Sulfide Alloy

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Xtel® XE4050BL is a glass fiber and mineral filled PPS based alloy developed to provide high ductility and impact strength along with good thermal stability. Information provided by Chevron Phillips Measured on 102mm x 102mm x 3.2 mm plaques, edge gated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Xtel-XE4050BL-Polyphenylene-Sulfide-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183A
Water Absorption	0.030 %	0.030 %	ASTM D-570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	130 MPa	18900 psi	ISO 527
Elongation at Yield	1.7 %	1.7 %	ISO 527
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	ISO 178
Compressive Strength	195 MPa	28300 psi	ISO 604
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180A

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 µm/m-°C	5.56 µin/in-°F	Axial; ISO 11359-2
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	20.0 µm/m-°C	11.1 µin/in-°F	Axial; ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
	100 µm/m-°C	55.6 µin/in-°F	

Thermal Properties	Metric @ Temperature 100 - 200 °C	English @ Temperature 212 - 392 °F	Comments ISO 11358-2
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	ISO 75
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D-257
Dielectric Constant	4.0	4.0	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.1	4.1	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D-149
Dissipation Factor	0.0030	0.0030	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0090	0.0090	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D-495
Comparative Tracking Index	150 V	150 V	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	315 - 345 °C	599 - 653 °F	
Mold Temperature	135 °C	275 °F	

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