

Chevron Phillips Xtel® XK2340 Polyphenylene Sulfide Alloy

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) Alloy, Glass Reinforced, Flow Enhanced

Material Notes:

Black Polyphenylene Sulfide Alloy Xtel™ XK2340 is a high performance, glass fiber reinforced, PPS-based alloy developed to provide excellent mechanical strength with an unique blend of toughness and rigidity along with excellent flow in thin-walled parts, low flash characteristics, and fast cycle times. Xtel™ XK2340 can be easily molded in conventional injection molding equipment utilizing water heated molds. Comments: Test specimen molding conditions: Stock Temperature, 280-305°C; Mold Temperature, 80°C; ASTM Values Converted to SI Units Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Xtel-XK2340-Polyphenylene-Sulfide-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	102 mm X 102 mm X 3.2 mm Plaques, Edge Gated
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	180 MPa	26100 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Flexural Yield Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Yield Strength	220 MPa	31900 psi	ASTM D695
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.90 J/cm	12.9 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
	39.0 µm/m-°C	21.7 µin/in-°F	Axial; ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	

Thermal Properties <small>CTE, linear, transverse to Flow</small>	Metric <small>63.0 µm/m-°C</small>	English <small>35.0 µin/in-°F</small>	Comments <small>ASTM E831</small>
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	110 µm/m-°C	61.1 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5	4.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149
Dissipation Factor	0.018	0.018	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.030	0.030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	116 sec	116 sec	ASTM D495
Comparative Tracking Index	275 V	275 V	UL 746A

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