

Chevron Phillips Xtel® XK2140 Polyphenylene Sulfide Alloy (discontinued **)

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

Material Notes:

Black Polyphenylene Sulfide Alloy Xtel™ XK2140 is a high performance, glass fiber reinforced, PPS-based alloy developed to provide excellent mechanical strength and electrical properties along with excellent flow in thin-walled parts, low flash characteristics, and fast cycle times. Xtel™ XK2140 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-XK2140-Polyphenylene-Sulfide-Alloy-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in³	ASTM D792
Water Absorption	0.090 %	0.090 %	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	0.0050 cm/cm	0.0050 in/in	Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	165 MPa	23900 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ASTM D638
Flexural Yield Strength	205 MPa	29700 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Yield Strength	195 MPa	28300 psi	ASTM D695
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.30 J/cm	8.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	Axial; ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	18.0 µm/m-°C	10.0 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	

Thermal Properties CTE, linear, transverse to Flow	50.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	27.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments ASTM E831
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
	92.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	51.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E831
	@Temperature 100 - 200 $^\circ\text{C}$	@Temperature 212 - 392 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	250 $^\circ\text{C}$	482 $^\circ\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8	3.8	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0	4.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0090	0.0090	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	100 sec	100 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	UL 746A

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