

Chevron Phillips Xtel® XK2760BL Polyphenylene Sulfide Alloy (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Xtel® XK2760BL is a high performance, glass fiber and mineral filled PPS based alloy developed to provide excellent mechanical strength with a unique blend of toughness, rigidity, and low flash characteristics. 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-XK2760BL-Polyphenylene-Sulfide-Alloy-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	ISO 1183A
Water Absorption	0.20 %	0.20 %	ASTM D-570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	165 MPa	23900 psi	ISO 527
Elongation at Yield	1.3 %	1.3 %	ISO 527
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
Compressive Strength	240 MPa	34800 psi	ISO 604
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 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	
	15.0 μm/m-°C	8.33 μin/in-°F	Axial; ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
CTE, linear, Transverse to Flow	40.0 μm/m-°C	22.2 μin/in-°F	ISO 11359-2

Thermal Properties	Metric @Temperature -50.0 - 30.0 °C	English @Temperature -58.0 - 122 °F	Comments
	95.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	52.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Thermal Conductivity	0.530 W/m-K	3.68 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D-257
Insulation Resistance	1.00e+12 ohm @Temperature 90.0 °C, Time 173000 sec	1.00e+12 ohm @Temperature 194 °F, Time 48.0 hour	95% RH
Dielectric Constant	5.0 @Frequency 1000 Hz	5.0 @Frequency 1000 Hz	ASTM D-150
	5.0 @Frequency 1e+6 Hz	5.0 @Frequency 1e+6 Hz	ASTM D-150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D-149
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	ASTM D-150
	0.015 @Frequency 1e+6 Hz	0.015 @Frequency 1e+6 Hz	ASTM D-150
Arc Resistance	130 sec	130 sec	ASTM D-495
Comparative Tracking Index	275 V	275 V	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 305 °C	536 - 581 °F	
Mold Temperature	100 °C	212 °F	

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