

## Chevron Phillips Xtel® XE5030BL Polyphenylene Sulfide Alloy

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

Xtel® XE5030BL is a high performance, glass fiber reinforced, 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-XE5030BL-Polyphenylene-Sulfide-Alloy.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Xtel-XE5030BL-Polyphenylene-Sulfide-Alloy.php)

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in <sup>3</sup>	ISO 1183A
Water Absorption	0.050 %	0.050 %	ASTM D-570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	140 MPa	20300 psi	ISO 527
Elongation at Yield	2.1 %	2.1 %	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Compressive Strength	210 MPa	30500 psi	ISO 604
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 180A
Izod Impact, Unnotched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 180A

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C	8.33 µin/in-°F	Axial; ISO 11359-2
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
CTE, linear	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	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
	130 µm/m-°C	72.2 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 100 - 200 °C	@ Temperature 212 - 392 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °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	3.5	3.5	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.6	3.6	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D-149
Dissipation Factor	0.0040	0.0040	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	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	

## Contact Songhan Plastic Technology Co.,Ltd.

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