

Chevron Phillips Xtel® XE3035NA Polyphenylene Sulfide Alloy

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Xtel® XE3035NA is a high performance, glass fiber reinforced, PPS based alloy developed to provide exceptionally high ductility and impact resistance 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-XE3035NA-Polyphenylene-Sulfide-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183A
Water Absorption	0.10 %	0.10 %	ASTM D-570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	ISO 527
Elongation at Yield	2.5 %	2.5 %	ISO 527
Flexural Strength	175 MPa	25400 psi	ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	ISO 178
Compressive Strength	90.0 MPa	13100 psi	ISO 604
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 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	
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	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	

Thermal Properties	Metric ^{°/m-°C}	English ^{°/in-°F}	Comments
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	ISO 11359-2
Thermal Conductivity	0.280 W/m-K	1.94 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+14 ohm-cm	1.00e+14 ohm-cm	ASTM D-257
Insulation Resistance	1.00e+10 ohm @Temperature 90.0 °C, Time 173000 sec	1.00e+10 ohm @Temperature 194 °F, Time 48.0 hour	95% RH
Dielectric Constant	3.5 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	ASTM D-150
	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D-150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D-149
Dissipation Factor	0.0030 @Frequency 1000 Hz	0.0030 @Frequency 1000 Hz	ASTM D-150
	0.011 @Frequency 1e+6 Hz	0.011 @Frequency 1e+6 Hz	ASTM D-150
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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