

Chevron Phillips Xtel® XE3200NA Polyphenylene Sulfide Alloy (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Xtel® XE3200NA is an un-reinforced high performance, PPS based alloy developed to provide exceptionally high ductility and impact resistance along with good thermal stability. Information provided by Chevron Phillips

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Xtel-XE3200NA-Polyphenylene-Sulfide-Alloy-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183A
Water Absorption	0.10 %	0.10 %	ASTM D-570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	100 %	100 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 527
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180A

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D-257
Dielectric Constant	2.8	2.8	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D-150
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D-149
Dissipation Factor	0.0030	0.0030	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	95 sec	95 sec	ASTM D-495
Comparative Tracking Index	200 V	200 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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