

Premix Thermoplastics PRE-ELEC® 12-032 (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

PRE-ELEC 12-032 is a conductive thermoplastic compound based on a polyacetal copolymer with 20% carbon fiber. PRE-ELEC 12-032 exhibits excellent mechanical properties and electrical conductivity. Test Specimen - 4.0 mm thick, 10.0 mm wide molded rod. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-12-032-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in³	
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	76.0 MPa	11000 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527
Izod Impact, Notched	0.530 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	2.40 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	4.50 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	ISO 75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	147 °C	297 °F	ISO 75/Method Af

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 100 ohm-cm	<= 100 ohm-cm	ISO D-257
Surface Resistance	<= 10000 ohm	<= 10000 ohm	ISO D-257
Static Decay	<= 2.0 sec	<= 2.0 sec	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Melt Temperature	185 - 210 °C	365 - 410 °F	
Mold Temperature	80.0 - 105 °C	176 - 221 °F	
Drying Temperature	80.0 °C @Time 10800 - 14400 sec	176 °F @Time 3.00 - 4.00 hour	Pre-drying in a dehumidifier
Injection Pressure	60.0 - 80.0 MPa	8700 - 11600 psi	

Descriptive Properties	Value	Comments
Injection Speed	Moderate	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China