

Premix Thermoplastics PRE-ELEC® 12-033 (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

PRE-ELEC 12-033 is a conductive thermoplastic compound based on a polyacetal copolymer with 30% carbon fiber. PRE-ELEC 12-033 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-12-033-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
Linear Mold Shrinkage	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.0 MPa	12500 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ISO 527
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527
Izod Impact, Notched	0.420 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.787 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	2.60 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	4.87 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)	165 °C	329 °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	<= 10 ohm-cm	<= 10 ohm-cm	ISO D-257
Surface Resistance	<= 1000 ohm	<= 1000 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	

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