

Premix Thermoplastics PRE-ELEC® PP 1380

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1380 is a conductive thermoplastic compound based on polypropylene. Conductivity is achieved by using special conductive carbon black. In addition to a very low electrical resistivity PRE-ELEC PP 1380 has a good balance of mechanical properties and is easy to injection mould. Typical applications include injection molded parts for the automotive, medical and electronics industries where a very low volume resistivity is needed. PRE-ELEC PP 1380 can also be blended with PP or PE-HD and used as a masterbatch. 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-PP-1380.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294-4
Melt Flow	1.5 g/10 min @Load 5.00 kg, Temperature 230 °C	1.5 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ISO 868
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Modulus of Elasticity	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched	0.130 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	0.244 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	0.350 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.656 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	1.00 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	1.87 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	6.00 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	11.2 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)	93.0 °C	199 °F	ISO 75/Method Bf
Vicat Softening Point	150 °C	302 °F	Rate A; ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 5.0 ohm-cm	<= 5.0 ohm-cm	ISO D-257
Surface Resistance	<= 100 ohm	<= 100 ohm	ISO D-257

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	60.0 - 80.0 °C @Time 7200 - 14400 sec	140 - 176 °F @Time 2.00 - 4.00 hour	Pre-drying
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Injection Pressure	60.0 - 80.0 MPa	8700 - 11600 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	
Injection Speed	Moderate	

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