

Premix Thermoplastics PRE-ELEC® PP 1378

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1378 is a conductive thermoplastic compound based on glass-fiber reinforced polypropylene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PP 1378 has an good balance of mechanical properties and is easy to injection mould. Typical applications include injection molded crates, boxes and tote bins for electronic components and other static sensitive devices (SSD). 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-1378.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294-4
Melt Flow	0.20 g/10 min	0.20 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ISO 868
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Modulus of Elasticity	3.20 GPa	464 ksi	ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Izod Impact, Unnotched	1.38 J/cm	2.59 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	ISO 75/Method Bf

Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	Metric	English	Comments
Vicat Softening Point	135 °C	275 °F	Rate B; ISO 306/B50
	159 °C	318 °F	Rate A; ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	ISO D-257
Surface Resistance	<= 1e+05	<= 1e+05	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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