

Premix Thermoplastics PRE-ELEC® PS 1328

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

PRE-ELEC PS 1328 is a conductive thermoplastic compound based on polystyrene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PS 1328 has excellent mechanical properties and is easy to injection mould. Typical applications include injection molded technical parts and housings 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-PS-1328.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	2.5 g/10 min @Load 5.00 kg, Temperature 200 °C	2.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133
High Load Melt Index	70 g/10 min @Load 21.6 kg, Temperature 200 °C	70 g/10 min @Load 47.6 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ISO 868
Tensile Strength, Ultimate	22.0 MPa	3190 psi	ISO 527
Tensile Strength, Yield	28.0 MPa	4060 psi	ISO 527
Elongation at Break	19 %	19 %	ISO 527
Elongation at Yield	8.0 %	8.0 %	ISO 527
Modulus of Elasticity	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	0.300 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	0.562 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	0.600 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	1.12 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	2.50 J/cm	4.68 ft-lb/in	ISO 180

Mechanical Properties	Metric @Thickness 4.00 mm, Temperature -20.0 °C	English @Thickness 0.157 in, Temperature -4.00 °F	Comments
	5.00 J/cm	9.37 ft-lb/in	
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	ISO 75/Method Bf
Vicat Softening Point	96.0 °C	205 °F	Rate A; ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 10000 ohm-cm	<= 10000 ohm-cm	ISO D-257
Surface Resistance	<= 1e+05	<= 1e+05	ISO D-257

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Drying Temperature	60.0 - 80.0 °C @Time 10800 - 14400 sec	140 - 176 °F @Time 3.00 - 4.00 hour	Pre-drying; If stored for longer than 1 year
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Injection Pressure	75.2 - 120 MPa	10900 - 17400 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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