

Premix Thermoplastics PRE-ELEC® PP 1385

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1385 is a conductive thermoplastic compound based on polypropylene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PP 1385 has an excellent 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-1385.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ISO 294-4
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	3.0 g/10 min	3.0 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 A	96	96	ISO 868
Hardness, Shore D	70	70	ISO 868
Tensile Strength, Ultimate	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527
Elongation at Break	75 %	75 %	ISO 527
Elongation at Yield	12 %	12 %	ISO 527
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched	3.90 J/cm	7.31 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	4.60 J/cm	8.62 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	

Mechanical Properties <i>rod impact, Unnotched</i>	^{NB} Metric	^{NB} English	Comments <i>ISO 180</i>
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	NB	NB	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)	88.0 °C	190 °F	ISO 75/Method Bf
Vicat Softening Point	147 °C	297 °F	Rate A; ISO 306/A50

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

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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