

Premix Thermoplastics PRE-ELEC® PP 1395

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1395 is a dissipative thermoplastic compound based on polypropylene. The electrical dissipation is achieved by using special conductive carbon black. In addition to stable surface resistance between 106-109 ohms PRE-ELEC PP 1395 has an excellent balance of mechanical properties and is easy to injection mould. Typical applications include injection molded crates, boxes, pallets and tote bins for electronic, automotive and chemical industry to prevent static charges. 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-1395.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
Linear Mold Shrinkage	0.013 - 0.016 cm/cm	0.013 - 0.016 in/in	ISO 294-4
Melt Flow	3.0 g/10 min	3.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	16 g/10 min	16 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	97	97	ISO 868
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Ultimate	16.0 MPa	2320 psi	ISO 527
Tensile Strength, Yield	19.0 MPa	2760 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Modulus of Elasticity	1.40 GPa	203 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	

Mechanical Properties	Metric kJ/m ²	English ft-lb/in ²	Comments
Izod Impact, Unnotched (ISO)	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	NB	NB	
	@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)	82.0 °C	180 °F	ISO 75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	ISO 75/Method Af
Vicat Softening Point	62.0 °C	144 °F	Rate B; ISO 306/B50
	144 °C	291 °F	Rate A; ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ISO D-257
Surface Resistance	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	ISO IEC 61340-5-1
Static Decay	<= 2.0 sec	<= 2.0 sec	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °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
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
Injection Speed	Moderate	

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