Premix Thermoplastics PRE-ELEC® PP 1392 Carbon Black Filled Conductive Thermoplastic Compound

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Carbon Black Filler

Material Notes:

PRE-ELEC® PP 1392 is a carbon black filled conductive thermoplastic compound based on polypropylene. In addition to a low electrical resistivity PRE-ELEC® PP 1392 has an excellent balance of mechanical properties and is easy to injection mould. Applications: Injection moulded ESD products such as crates, boxes and tote bins for electronic components.Processing: PRE-ELEC® PP 1392 compound can be processed in the injection moulding machines using normal processing conditions as with polypropylene.Test Specimen: 10[mm] wide moulded rodInformation from Premix OY

Order this product through the following link:
http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-PP-1392-Carbon-Black-Filled-Conductive-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in³	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ISO 294-4
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
	35 g/10 min @Load 5.00 kg, Temperature 230 °C	35 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	ISO 868
Hardness, Shore D	72	72	ISO 868
Tensile Strength	27.0 MPa	3920 psi	ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Elongation at Yield	7.0 %	7.0 %	ISO 527
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m² @Thickness 4.00 mm, Temperature -20.0 °C	7.14 ft-lb/in² @Thickness 0.157 in, Temperature -4.00 °F	ISO 180

Mechanical Properties	Metric	English	Comments
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched (ISO)	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
	NB @Thickness 4.00 mm, Temperature -20.0 °C	NB @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
Charpy Impact Unnotched	NB @Thickness 102 mm, Temperature 23.0 °C	NB @Thickness 4.00 in, Temperature 73.4 °F	ISO 179
	NB @Thickness 102 mm, Temperature -20.0 °C	NB @Thickness 4.00 in, Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	1.40 J/cm² @Thickness 102 mm, Temperature -20.0 °C	6.66 ft-lb/in² @Thickness 4.00 in, Temperature -4.00 °F	ISO 179
	1.50 J/cm² @Thickness 102 mm, Temperature 23.0 °C	7.14 ft-lb/in² @Thickness 4.00 in, Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	75/Method Af
Vicat Softening Point	88.0 °C	190 °F	ISO 306/B50
	155 °C	311 °F	ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	ISO D-257
Surface Resistance	<= 10000 ohm	<= 10000 ohm	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature			

Processing Properties	Metric	English	Comments
Drying Temperature	60.0 - 80.0 °C	140 - 176 °F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	
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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