

Premix Thermoplastics PRE-ELEC® PE 1295

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

PRE-ELEC PE 1295 is a dissipative thermoplastic compound based on PE-HD. The electrical dissipation is achieved by using special conductive carbon black. In addition to stable surface resistance between 106-109 ohms PRE-ELEC PE 1295 has an excellent balance of mechanical properties and is easy to injection mould. Typical applications include injection molded pallets, crates, boxes 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-PE-1295.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Linear Mold Shrinkage	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	ISO 294-4
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	60 g/10 min	60 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 190 °C	@Load 22.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Ultimate	13.0 MPa	1890 psi	ISO 527
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527
Elongation at Break	110 %	110 %	ISO 527
Elongation at Yield	12 %	12 %	ISO 527
Modulus of Elasticity	0.800 GPa	116 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 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	
	50.0 kJ/m ²	23.8 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	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)	65.0 °C	149 °F	ISO 75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	43.0 °C	109 °F	ISO 75/Method Af
Vicat Softening Point	58.0 °C	136 °F	Rate B; ISO 306/B50
	123 °C	253 °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 - 280 °C	410 - 536 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 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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