

Premix Thermoplastics PRE-ELEC® PE 1313 (discontinued **)

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

Material Notes:

PRE-ELEC PE 1313 is a conductive thermoplastic compound based on PE-LLD. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PE 1313 has excellent mechanical properties and is easy to injection mould. Typical applications include flexible injection molded parts. 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-1313-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Linear Mold Shrinkage	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ISO 294-4
Melt Flow	1.0 g/10 min @Load 10.0 kg, Temperature 190 °C	1.0 g/10 min @Load 22.0 lb, Temperature 374 °F	ISO 1133
High Load Melt Index	4.0 g/10 min @Load 21.6 kg, Temperature 190 °C	4.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	ISO 868
Tensile Strength, Ultimate	11.0 MPa	1600 psi	ISO 527
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527
Elongation at Break	600 %	600 %	ISO 527
Elongation at Yield	50 %	50 %	ISO 527
Modulus of Elasticity	0.400 GPa	58.0 ksi	ISO 178
Izod Impact, Notched	0.520 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	0.974 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	1.25 J/cm	2.34 ft-lb/in	ISO 180

Mechanical Properties	@Thickness 4.00 mm, Metric Temperature -20.0 °C	@Thickness 0.157 in, English Temperature -4.00 °F	Comments
	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)	51.0 °C	124 °F	ISO 75/Method Bf
Vicat Softening Point	100 °C	212 °F	Rate A; 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 D-257

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °F	
Drying Temperature	90.0 °C @Time 10800 sec	194 °F @Time 3.00 hour	If stored for longer than 1 year
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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