

Premix Thermoplastics PRE-ELEC® PP 1383

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1383 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 1383 has an excellent balance of mechanical properties and is easy to injection mould. Pre-elec PP 1383 has a very high MFI. Typical applications include injection molded technical 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-PP-1383.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ISO 294-4
Melt Flow	9.0 g/10 min	9.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	50 g/10 min	50 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	95	95	ISO 868
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ISO 527
Elongation at Break	14 %	14 %	ISO 527
Modulus of Elasticity	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched	0.840 J/cm	1.57 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Izod Impact, Unnotched	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)	70.0 °C	158 °F	ISO 75/Method Bf

Thermal Properties	Metric	English	Comments
Heat Softening Point	130 °C	266 °F	HAIR A, ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 100 ohm-cm	<= 100 ohm-cm	ISO D-257
Surface Resistance	<= 1000 ohm	<= 1000 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China