

Premix Thermoplastics PRE-ELEC® PS 1326

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

PRE-ELEC PS 1326 is a conductive thermoplastic compound based on polystyrene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PS 1326 has excellent mechanical properties and is easy to extrude or injection mould. Typical applications include extruded sheets for thermoforming of trays and the injection molding of tote bins, reels etc. for the electronics industry. 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-PS-1326.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	1.2 g/10 min @Load 5.00 kg, Temperature 200 °C	1.2 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133
High Load Melt Index	45 g/10 min @Load 21.6 kg, Temperature 200 °C	45 g/10 min @Load 47.6 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	99	99	ISO 868
Hardness, Shore D	73	73	ISO 868
Tensile Strength, Ultimate	23.0 MPa	3340 psi	ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527
Elongation at Break	80 %	80 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	ISO 527
Modulus of Elasticity	1.80 GPa	261 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	0.787 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	0.850 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	1.59 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Mechanical Properties <i>Izod Impact, Unnotched</i>	5.65 J/cm Metric	10.6 ft-lb/in English	Comments ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	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)	84.0 °C	183 °F	ISO 75/Method Bf
Vicat Softening Point	97.0 °C	207 °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
Middle Barrel Temperature	210 °C	410 °F	Zone 1; Cylinder
	220 °C	428 °F	Zone 2; Cylinder
	220 °C	428 °F	Zone 3; Cylinder
	230 °C	446 °F	Zone 6; Cylinder
	230 °C	446 °F	Zone 4; Cylinder
	230 °C	446 °F	Zone 5; Cylinder
Die Temperature	220 °C	428 °F	Zone 3
	230 °C	446 °F	Zone 1
	230 °C	446 °F	Zone 4
	230 °C	446 °F	Zone 5
	230 °C	446 °F	Zone 2
Melt Temperature	200 - 260 °C	392 - 500 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Roll Temperature	60.0 °C	140 °F	3rd Roll
	80.0 °C	176 °F	2nd Roll

Processing Properties	90.0 °C Metric	194 °F English	Test Result Comments
Drying Temperature	60.0 - 80.0 °C @Time 10800 - 14400 sec	140 - 176 °F @Time 3.00 - 4.00 hour	Pre-drying; If stored for longer than 1 year
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Injection Pressure	75.2 - 120 MPa	10900 - 17400 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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