

Premix Thermoplastics PRE-ELEC® PPE 1462 (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

PRE-ELEC PPE 1462 is a conductive thermoplastic compound based on modified polyphenylene ether (PPE). Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PPE 1462 has an excellent balance of mechanical properties and is easy to injection mould. Typical applications include injection molded IC-trays and technical parts where a high heat resistance is needed. 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-PPE-1462-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ISO 294-4
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 300 °C	2.0 g/10 min @Load 11.0 lb, Temperature 572 °F	ISO 1133
High Load Melt Index	21 g/10 min @Load 21.6 kg, Temperature 300 °C	21 g/10 min @Load 47.6 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ISO 868
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.200 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	0.375 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	0.370 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.693 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	2.00 J/cm @Thickness 4.00 mm, Temperature -20.0 °C	3.75 ft-lb/in @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	4.20 J/cm	7.87 ft-lb/in	

Mechanical Properties	Metric @Thickness 4.00 mm, Temperature 23.0 °C	English @Thickness 0.157 in, Temperature 73.4 °F	ISO 180 Comments
-----------------------	--	--	---------------------

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	ISO 75/Method Bf
Vicat Softening Point	180 °C	356 °F	Rate B; ISO 306/B50
	187 °C	369 °F	Rate A; ISO 306/A50
Glass Transition Temp, Tg	177 °C	351 °F	T _g (Amorphous)

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1e+05	<= 1e+05	ISO D-257
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	ISO D-257

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 320 °C	554 - 608 °F	
Mold Temperature	90.0 - 130 °C	194 - 266 °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	180.0 - 230.0 MPa	26110 - 33360 psi	
Hold Pressure	150.0 - 170.0 MPa	21760 - 24660 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	
Injection Speed	Moderate - Fast	

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