

Premix Thermoplastics PRE-ELEC® CP 1315 (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

PRE-ELEC CP 1315 is a conductive thermoplastic compound based on a polyolefin copolymer. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC CP 1315 has excellent mechanical properties and is easy to extrude or injection mould. Typical applications include flexible extruded profiles and tubes and 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-CP-1315-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 190 °C	5.0 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
High Load Melt Index	25 g/10 min @Load 21.6 kg, Temperature 190 °C	25 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	ISO 868
Hardness, Shore D	45	45	ISO 868
Tensile Strength, Yield	13.0 MPa	1890 psi	ISO 527
Elongation at Break	150 %	150 %	ISO 527
Modulus of Elasticity	0.200 GPa	29.0 ksi	ISO 178
Izod Impact, Notched	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ISO 75/Method Bf

Thermal Properties	Metric	English	Comments
Heat Softening Point	150.0 °C	302 °F	ASTM D 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 10000 ohm-cm	<= 10000 ohm-cm	ISO D-257
Surface Resistance	<= 1e+05	<= 1e+05	ISO D-257

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 °C	356 °F	Zone 1; Cylinder
	180 °C	356 °F	Zone 2; Cylinder
	190 °C	374 °F	Zone 3; Cylinder
	190 °C	374 °F	Zone 4; Cylinder
	200 °C	392 °F	Zone 5; Cylinder
	200 °C	392 °F	Zone 6; Cylinder
Die Temperature	190 °C	374 °F	Zone 3
	200 °C	392 °F	Zone 4
	200 °C	392 °F	Zone 1
	200 °C	392 °F	Zone 2
	200 °C	392 °F	Zone 5
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Roll Temperature	50.0 °C	122 °F	3rd Roll
	60.0 °C	140 °F	2nd Roll
	70.0 °C	158 °F	1st Roll
Drying Temperature	60.0 °C	140 °F	If stored for longer than 1 year
	@Time >=10800 sec	@Time >=3.00 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Injection Pressure	60.00 MPa	8702 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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