

Premix Thermoplastics PRE-ELEC® CP 1318 (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

PRE-ELEC CP 1318 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 1318 has excellent mechanical properties and is easy to extrude or injection mould. Typical applications include flexible extruded products like hoses for vacuum cleaners, profiles for seals etc.

PRE-ELEC CP 1318 is also suitable for 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-1318-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in³	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
High Load Melt Index	26 g/10 min	26 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ISO 868
Hardness, Shore D	46	46	ISO 868
Tensile Strength, Yield	19.0 MPa	2760 psi	ISO 527
Elongation at Break	500 %	500 %	ISO 527
Izod Impact, Notched	NB	NB	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
Vicat Softening Point	67.0 °C	153 °F	Rate A; ISO 306/A50

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	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 4
	230 °C	446 °F	Zone 1
	230 °C	446 °F	Zone 2
	230 °C	446 °F	Zone 5
Melt Temperature	180 - 230 °C	356 - 446 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Roll Temperature	60.0 °C	140 °F	3rd Roll
	80.0 °C	176 °F	2nd Roll
	90.0 °C	194 °F	1st Roll
Drying Temperature	50.0 - 55.0 °C	122 - 131 °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	40.0 - 69.6 MPa	5800 - 10100 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	

Injection Speed Descriptive Properties	Moderate to Low Value	Comments
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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