

Premix Thermoplastics PRE-ELEC® PP 1396 Conductive Thermoplastic Compound

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Carbon Black Filler

Material Notes:

PRE-ELEC® PP 1396 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 1396 has excellent mechanical properties and is easy to extrude. Applications: Extrusion of conductive PP-tape. Processing: PRE-ELEC® PP 1396 compound can be extruded in the machines using normal processing conditions as with polypropylene. Test Specimen: 10[mm] wide moulded rod Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-PP-1396-Conductive-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.012 - 0.017 cm/cm	0.012 - 0.017 in/in	ISO 294-4
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 230 °C	3.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	ISO 868
Hardness, Shore D	73	73	ISO 868
Film Elongation at Break, MD	4.0 % @Thickness 0.400 mm	4.0 % @Thickness 0.0157 in	ISO 527
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	0.952 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched (ISO)	18.0 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	8.57 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	1.40 J/cm ² @Thickness 102 mm, Temperature 23.0 °C	6.66 ft-lb/in ² @Thickness 4.00 in, Temperature 73.4 °F	ISO 179
	0.300 J/cm ²	1.43 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @Thickness 102 mm, Temperature 23.0 °C	English @Thickness 4.00 in, Temperature 73.4 °F	ISO 179 Comments
Film Tensile Strength at Break, MD	33.0 MPa @Thickness 0.400 mm	4790 psi @Thickness 0.0157 in	ISO 527

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	75/Method Af
Vicat Softening Point	155 °C	311 °F	ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 10 ohm-cm @Thickness 0.400 mm	<= 10 ohm-cm @Thickness 0.0157 in	ISO D-257
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	5 x stretched tape; ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Zone 1	250 °C	482 °F	Die
	250 °C	482 °F	Cylinder
Zone 2	250 °C	482 °F	Die
	260 °C	500 °F	Cylinder
Zone 3	250 °C	482 °F	Die
	270 °C	518 °F	Cylinder
Zone 4	250 °C	482 °F	Die
	270 °C	518 °F	Cylinder
Zone 5	250 °C	482 °F	Die
	270 °C	518 °F	Cylinder
Roll Temperature	90.0 °C	194 °F	1st Roll
	100 °C	212 °F	2nd Roll
	100 °C	212 °F	3rd Roll
Drying Temperature	60.0 - 80.0 °C	140 - 176 °F	Pre-drying

Processing Properties	Metric ^{UR}	English ^{UR}	Comments
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

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