

Premix Thermoplastics PRE-ELEC® PP 1386

Category : Polymer , Film , Thermoplastic , Polypropylene (PP)

Material Notes:

PRE-ELEC PP 1386 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 1386 has excellent mechanical properties and is easy to extrude. Typical applications include extrusion of corrugated sheet. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-PP-1386.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	
Thickness	406 microns	16.0 mil	
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	4 mm thick, 10.0 mm wide molded rod; ISO 294-4
Melt Flow	0.60 g/10 min	0.60 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	99	99	4.0 mm thick; 10.0 mm wide molded rod; ISO 868
Hardness, Shore D	74	74	4.0 mm thick; 10.0 mm wide molded rod; ISO 868
Film Tensile Strength at Yield, MD	23.0 MPa	3340 psi	ISO 527
Film Tensile Strength at Yield, TD	22.0 MPa	3190 psi	ISO 527
Film Elongation at Break, MD	500 %	500 %	ISO 527
Film Elongation at Break, TD	480 %	480 %	ISO 527
Film Elongation at Yield, MD	17 %	17 %	ISO 527
Film Elongation at Yield, TD	16 %	16 %	ISO 527
Modulus of Elasticity	1.40 GPa	203 ksi	4 mm thick; 10.0 mm wide molded rod; ISO 178
Izod Impact, Notched	4.35 J/cm	8.15 ft-lb/in	ISO 180

Mechanical Properties	Metric @Thickness 4.00 mm, Temperature 23.0 °C	English @Thickness 0.157 in, Temperature 73.4 °F	Comments
Izod Impact, Unnotched	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ISO 527
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ISO 527

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	4 mm thick;10.0 mm wide molded rod; ISO 75/Method Bf
Vicat Softening Point	151 °C	304 °F	Rate A; 4 mm thick;10.0 mm wide molded rod; ISO 306/A50

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	400 um thick sheet; ISO D-257
Surface Resistance	<= 10000 ohm	<= 10000 ohm	400 um thick sheet; 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
Roll Temperature	60.0 °C	140 °F	3rd Roll
	80.0 °C	176 °F	2nd Roll
	90.0 °C	194 °F	1st Roll

Processing Properties	Metric	English	Comments
	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	Pre-drying
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	

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