

## Premix Thermoplastics PRE-ELEC® PE 1270 (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

### Material Notes:

PRE-ELEC PE 1270 is a conductive thermoplastic compound based on PE-LLD. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC PE 1270 has excellent mechanical properties and is easy to injection mould.

Typical applications include injection molded technical parts where good impact strength in low temperatures 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-PE-1270-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-PE-1270-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	
Linear Mold Shrinkage	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ISO 294-4
Melt Flow	0.50 g/10 min	0.50 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.5 g/10 min	2.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	11.0 MPa	1600 psi	ISO 527
Elongation at Break	520 %	520 %	ISO 527
Modulus of Elasticity	0.220 GPa	31.9 ksi	ISO 178
Izod Impact, Notched	NB	NB	ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	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 -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	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	88.0 °C	190 °F	Rate A; ISO 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
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °F	
Drying Temperature	90.0 °C @Time 10800 sec	194 °F @Time 3.00 hour	If stored for longer than 1 year
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Injection Pressure	60.0 - 80.0 MPa	8700 - 11600 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	
Injection Speed	Moderate	

## Contact Songhan Plastic Technology Co.,Ltd.

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