

Premix Thermoplastics PRE-ELEC® ESD 6600 Static Dissipative Thermoplastic Compound

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

PRE-ELEC® ESD 6000 is a static dissipative thermoplastic compound based on high impact polystyrene. The dissipative property is permanent and built into the polymer chain. PRE-ELEC® ESD 6000 has been developed for extrusion of thermoformable multilayer sheets and injection molding. It has been designed to full strict ionic purity requirements. PRE-ELEC® ESD 6000 has been modified to minimize the formation of particulate contamination during transport and handling of final products. Surface resistance values of 10⁸ Ω (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. The products made out of PRE-ELEC® ESD 6000 are washable, reusable, recyclable. PRE-ELEC® ESD 6000 is whitish in colour and can be coloured into various bright colours. Applications: Injection moulded boxes, bins, thermoformed trays and clamshells when permanent ESD protection is required. These products can be used in electronics, medical, pharmaceutical and paper handling industries. Processing: PRE-ELEC® ESD 6000 compound can be processed in normal processing conditions as with polystyrene. 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-ESD-6600-Static-Dissipative-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 @Thickness 1.00 mm	62 @Thickness 0.0394 in	ISO 868
Tensile Strength	14.0 MPa	2030 psi	ISO 527
Tensile Strength, Yield	15.0 MPa	2180 psi	ISO 527
Elongation at Break	26 %	26 %	ISO 527
Elongation at Yield	11 %	11 %	ISO 527
Flexural Modulus	0.800 GPa	116 ksi	ISO 178
Izod Impact, Notched (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

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 °C	169 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	75/Method Af
Vicat Softening Point	56.0 °C	133 °F	ISO 306/B50
	82.0 °C	180 °F	ISO 306/A50

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 ohm @Thickness 0.00100 mm	1.00e+9 ohm @Thickness 0.0000394 in	ISO IEC 61340-5-1
Static Decay	<= 1.0 sec @Thickness 1.00 mm	<= 1.0 sec @Thickness 0.0394 in	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Zone 1	180 °C	356 °F	Cylinder
	200 °C	392 °F	Die
Zone 2	190 °C	374 °F	Cylinder
	200 °C	392 °F	Die
Zone 3	190 °C	374 °F	Die
	200 °C	392 °F	Cylinder
Zone 4	200 °C	392 °F	Die
	200 °C	392 °F	Cylinder
Zone 5	200 °C	392 °F	Die
	200 °C	392 °F	Cylinder
Melt Temperature	190 - 210 °C	374 - 410 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Roll Temperature	50.0 °C	122 °F	3rd Roll

Processing Properties	Metric	English	Comments
	60.0 °C	140 °F	2nd Roll
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Pre-drying in a dehumidifier
Dry Time	3 - 4 hour	3 - 4 hour	
Injection Pressure	75.2 - 120 MPa	10900 - 17400 psi	
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Injection Speed	Moderate	

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