

Premix Thermoplastics PRE-ELEC® ESD 6300 Static Dissipative Thermoplastic Compound

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

Material Notes:

PRE-ELEC® ESD 6300 is a static dissipative thermoplastic compound based on high impact polystyrene. The dissipative property is permanent and built into the polymer chain. PRE-ELEC® ESD6300 has been developed for extrusion of thermoformable multilayer sheets and injection molding. 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 6300 are washable, reusable, recyclable. PRE-ELEC® ESD 6300 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. The performance of ESD 6300 in coextrusion can further be improved by adding ~5% of SBS. This improves the ductility of the outer layer and the adhesion between the layers. Processing: PRE-ELEC® ESD 6300 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-6300-Static-Dissipative-Thermoplastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 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	11 g/10 min @Load 5.00 kg, Temperature 200 °C	11 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	14.0 MPa	2030 psi	ISO 527
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527
Elongation at Break	12 %	12 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	1.90 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched (ISO)	24.0 kJ/m ² @Thickness 4.00 mm,	11.4 ft-lb/in ² @Thickness 0.157 in,	ISO 180

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	69.0 °C	156 °F	75/Method Af

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
	60.0 °C	140 °F	1st Roll
	60.0 °C	140 °F	2nd Roll
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Pre-drying in a dehumidifier

Dry Time Processing Properties	3 - 4 hour Metric	3 - 4 hour English	Comments
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	

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