

Premix Thermoplastics PRE-ELEC® ESD 6020 Dissipative Masterbatch, IDP Additive

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

PRE-ELEC® ESD 6020 is a dissipative masterbatch developed for coextruded HIPS-sheets. The active substance is an IDP (inherently dissipative polymer) and it gives a permanent static dissipative property also at low humidity. The surface resistance level of 10⁹-10¹⁰ ohms can be achieved at 20-25 % dosing level (EOS/ESD S11.11-1993, IEC 61340-5-1). The let down ratio of the masterbatch with high impact polystyrene should be tested prior to its use with the polymer used in order to reach the desired dissipative level. The thickness of the outer layers can be thin (< 5%) depending on the extrusion line. With good processing the adhesion between the outer dissipative layer and the core layer is excellent. PRE-ELEC® ESD 6020 provides a cost-effective solution for protecting the fragile electronics components. Because of the ion content, the material may not be accepted in all clean room applications. The processing temperature should be less than 220°C (430°F) and the material should be pre-dried before processing. The performance of ESD 6020 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 6020 should be diluted with extrusion grade high-impact polystyrene. PRE-ELEC® ESD 6020 / HIPS dry blend can be processed in normal processing conditions as with polystyrene. Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-6020-Dissipative-Masterbatch-IDP-Additive.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 200 °C	14 g/10 min @Load 4.76 lb, Temperature 392 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+10 ohm	1.00e+9 - 1.00e+10 ohm	At 20-25% Dosing; ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Processing Temperature	<= 220 °C	<= 428 °F	
Zone 1	180 °C	356 °F	Cylinder
	200 °C	392 °F	Die
Zone 2	190 °C	374 °F	Cylinder

Processing Properties	200 °C Metric	392 °F English	Die Comments
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
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 °C	158 °F	
	70.0 - 80.0 °C	158 - 176 °F	Pre-drying in a dehumidifier
Dry Time	3 - 4 hour	3 - 4 hour	
	4 hour	4 hour	
Moisture Content	<= 0.25 %	<= 0.25 %	when produced

Descriptive Properties	Value	Comments
Appearance	Ganule	
Colour	Whitish	

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