

Premix Thermoplastics PRE-ELEC® ESD 6010 Dissipative Masterbatch, IDP Additive

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

Material Notes:

PRE-ELEC® ESD 6010 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 6010 provides a clean solution for protecting the fragile electronics components. Because of the controlled ion content, the material can be used in clean room applications. PRE-ELEC® ESD 6010 should be diluted with extrusion grade high-impact polystyrene. The performance of ESD 6010 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 6010 / 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-6010-Dissipative-Masterbatch-IDP-Additive.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 200 °C	11 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
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

Processing Properties	Metric	English	Comments
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	Granule	
Colour	Whitish	

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