

Premix Thermoplastics PRE-ELEC® ESD 4300

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

Material Notes:

PRE-ELEC ESD 4300 is a static dissipative thermoplastic compound based on PE-LD. The dissipative property is permanent and built into the polymer chain. PRE-ELEC ESD 4300 has been developed for multilayer film blowing. It can also be blow molded or injection molded. Surface resistance values of 109 ohms (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. Typical applications include multilayer bags, sacks and bottles which give permanent ESD protection for the electronics, medical, pharmaceutical and agricultural industries. When PRE-ELEC ESD 4300 is used in the core layer and FDA approved polyolefin in the outer layers, a low charging and food approved film can be achieved. PRE-ELEC ESD 4300 gives also good printability without treatment as it has low surface tension and can be colored into various bright colors. PRE-ELEC ESD 2300 is recommended to be used only in multilayer constructions. Therefore the mechanical properties are dependent on the other layer material. Test Specimen: Monolayer Film. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-4300.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 ohm	1.00e+9 ohm	ISO IEC 61340-5-1
Static Decay	<= 2.0 sec	<= 2.0 sec	ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 195 °C	338 - 383 °F	
Blow-up Ratio (BUR)	>= 1.8	>= 1.8	
Drying Temperature	60.0 °C @Time 10800 sec	140 °F @Time 3.00 hour	Pre-drying

Descriptive Properties	Value	Comments
Screen Pack	Standard	

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