

Premix Thermoplastics PRE-ELEC® ESD 7300

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

PRE-ELEC ESD 7300 is a static dissipative thermoplastic compound based on PC/PBT. The dissipative property is permanent and built into the polymer chain. PRE-ELEC ESD 7300 has been developed for injection molding. The products made out of PRE-ELEC ESD 7300 are washable, reusable and recyclable. Surface resistance values of 10⁸ ohms (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. Typical applications include injection molded technical parts used in e.g. office machines, telecommunications and other electronic equipments to give a permanent ESD protection. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-7300.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74 @Thickness 3.00 mm	74 @Thickness 0.118 in	molded sheet; ISO 868
Tensile Strength, Ultimate	43.0 MPa	6240 psi	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Tensile Strength, Yield	44.0 MPa	6380 psi	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Elongation at Break	200 %	200 %	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Elongation at Yield	10 %	10 %	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Modulus of Elasticity	1.75 GPa	254 ksi	4 mm thick;10.0 mm wide molded rod; ISO 178
Izod Impact, Notched	3.80 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	7.12 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched	NB @Thickness 4.00 mm, Temperature 23.0 °C	NB @Thickness 0.157 in, Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	90.0 °C	194 °F	4 mm thick;10.0 mm wide molded

Thermal Properties	Metric	English	rod: ISO 75/Method Bf Comments
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	4 mm thick;10.0 mm wide molded rod; ISO 75/Method Af
Vicat Softening Point	114 °C	237 °F	Rate B; 4 mm thick;10.0 mm wide molded rod; ISO 306/B50
	147 °C	297 °F	Rate A; 4 mm thick;10.0 mm wide molded rod; ISO 306/A50
Flammability, UL94	HB @Thickness 1.00 mm	HB @Thickness 0.0394 in	ISO RD524
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	ISO RD524

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+10 ohm @Thickness 3.00 mm	<= 1.00e+10 ohm @Thickness 0.118 in	molded plate; ISO IEC 61340-5-1
Static Decay	<= 2.0 sec @Thickness 3.00 mm	<= 2.0 sec @Thickness 0.118 in	molded plate; ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Drying Temperature	80.0 - 100 °C @Time 7200 - 14400 sec	176 - 212 °F @Time 2.00 - 4.00 hour	Pre-drying in a dehumidifier
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	
Injection Pressure	Moderate to High	
Injection Speed	Moderate to High	
Post Pressure, psi	5800 - 8700	

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