

Premix Thermoplastics PRE-ELEC® ESD 7200

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

PRE-ELEC ESD 7200 is a static dissipative thermoplastic compound based on PC/ABS. The dissipative property is permanent and built into the polymer chain. PRE-ELEC ESD 7200 has been developed for injection molding. The products made out of PRE-ELEC ESD 7200 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, telecommunication, electronics, medical and pharmaceutical industries, which give permanent ESD protection. PRE-ELEC ESD 7200 can also be extruded into sheets for thermoforming. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-7200.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73 @Thickness 3.00 mm	73 @Thickness 0.118 in	molded sheet; ISO 868
Tensile Strength, Ultimate	33.0 MPa	4790 psi	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	4.0 mm thick, 10.0 mm wide molded rod; ISO 527
Elongation at Break	65 %	65 %	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	1.80 GPa	261 ksi	4 mm thick;10.0 mm wide molded rod; ISO 178
Izod Impact, Notched	1.70 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	3.18 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	100 °C	212 °F	4 mm thick;10.0 mm wide molded

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	4 mm thick;10.0 mm wide molded rod; ISO 75/Method Af
Vicat Softening Point	113 °C	235 °F	Rate A; 4 mm thick;10.0 mm wide molded rod; ISO 306/A50
Flammability, UL94	HB	HB	ISO RD524
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	HB	HB	ISO RD524
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+11 ohm	<= 1.00e+11 ohm	molded plate; ISO IEC 61340-5-1
	@Thickness 3.00 mm	@Thickness 0.118 in	
Static Decay	<= 2.0 sec	<= 2.0 sec	molded plate; ISO IEC 61340-5-1
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 °C	356 °F	Zone 1; Cylinder
	190 °C	374 °F	Zone 2; Cylinder
	200 °C	392 °F	Zone 3; Cylinder
	200 °C	392 °F	Zone 6; Cylinder
	200 °C	392 °F	Zone 4; Cylinder
	200 °C	392 °F	Zone 5; Cylinder
Die Temperature	188 °C	370 °F	Zone 3
	199 °C	390 °F	Zone 4
	199 °C	390 °F	Zone 1
	199 °C	390 °F	Zone 5
	199 °C	390 °F	Zone 2
Melt Temperature	190 - 220 °C	374 - 428 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Roll Temperature	50.0 °C	122 °F	3rd Roll

Processing Properties	60.0 °C Metric	140 °F English	2nd Roll Comments
	60.0 °C	140 °F	1st Roll
Drying Temperature	60.0 - 80.0 °C @Time 7200 - 14400 sec	140 - 176 °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	Whitish	
Injection Pressure	Moderate to High	
Injection Speed	Moderate to High	
Post Pressure, psi	5800 - 8700	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China