

## Premix Thermoplastics PRE-ELEC® ESD 7140 Static Dissipative Thermoplastic Compound

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

### Material Notes:

PRE-ELEC® ESD 7140 is a static dissipative thermoplastic masterbatch based on ABS. The dissipative property is permanent and built into the polymer chain. PRE-ELEC® ESD 7140 has been developed for injection moulding. The products made out of PRE-ELEC® ESD 7140 are washable, reusable and recyclable. Surface resistance values of 108 ohms (IEC 61340-5-1, EOS/ESD S11.11-1993) can be achieved with optimum processing parameters. Applications: Trays, tote bins, crates and technical parts which give permanent ESD protection for the electronics, medical, pharmaceutical and paper handling industries. PRE-ELEC® ESD 7140 can be coloured into various bright colours. Test Specimen: 10[mm] wide moulded rod Information from Premix OY

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Thermoplastics-PRE-ELEC-ESD-7140-Static-Dissipative-Thermoplastic-Compound.php](http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-7140-Static-Dissipative-Thermoplastic-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	
Thickness	102 microns	4.00 mil	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	32 g/10 min @Load 5.00 kg, Temperature 200 °C	32 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	26.0 MPa	3770 psi	ISO 527
Tensile Strength, Yield	33.0 MPa	4790 psi	ISO 527
Elongation at Break	38 %	38 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Modulus of Elasticity	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup> @Thickness 4.00 mm, Temperature -20.0 °C	4.28 ft-lb/in <sup>2</sup> @Thickness 0.157 in, Temperature -4.00 °F	ISO 180
	24.0 kJ/m <sup>2</sup> @Thickness 4.00 mm, Temperature 23.0 °C	11.4 ft-lb/in <sup>2</sup> @Thickness 0.157 in, Temperature 73.4 °F	ISO 180
Izod Impact, Unnotched (ISO)	NB @Thickness 4.00 mm,	NB @Thickness 0.157 in,	ISO 180

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	NB	NB	
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	75/Method Af

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	Test specimen: 100mm x 100mm x 3mm molded plaque; ISO IEC 61340-5-1
Static Decay	<= 2.0 sec	<= 2.0 sec	From 1000 V down to 100 V, Test specimen: 100mm x 100mm x 3mm molded plaque; ISO IEC 61340-5-1

Processing Properties	Metric	English	Comments
Processing Temperature	<= 220 °C	<= 428 °F	
Melt Temperature	190 - 210 °C	374 - 410 °F	
Mold Temperature	30.0 - 70.0 °C	86.0 - 158 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Pre-drying in a dehumidifier
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	when produced
Injection Pressure	75.2 - 120 MPa	10900 - 17400 psi	
Hold Pressure	40.0 - 60.0 MPa	5800 - 8700 psi	Post Pressure
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Colour	Whitish	
Injection Speed	Moderate	

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