

PRE-ELEC® ESD 7200

Polycarbonate + ABS

Premix Oy

Message:

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 moulding. The products made out of PRE-ELEC® ESD 7200 are washable, reusable and recyclable. Surface resistance values of 1e9 ohms (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. Typical applications include injection moulded 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.

General Information			
Features	Recyclable materials		
Uses	Electrical/Electronic Applications		
	Communication Equipment		
	Drug		
	Medical/nursing supplies		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.11	g/cm ³	ASTM D792
--	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	40.0	MPa	ASTM D638, ISO 527-2
--	40.0	MPa	ASTM D638
4.00 mm	40.0	MPa	ISO 527-2
Tensile Elongation			
Yield	10	%	ASTM D638, ISO 527-2
Fracture	150	%	ASTM D638
Fracture, 4.00mm	150	%	ISO 527-2
Flexural Modulus			
4.00 mm	1720	MPa	ASTM D790
4.00 mm	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 4.00 mm)	2.94	kJ/m ²	ASTM D256
Notched Izod Impact ¹ (23°C)	77	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C, 4.00 mm)	No Break		ASTM D256
Unnotched Izod Impact Strength ² (23°C)	No Break		ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	106	°C	ASTM D648B, ISO 75-2/Bf
1.8 MPa, not annealed	87.2	°C	ASTM D648A
1.8 MPa, not annealed	87.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	101	°C	ASTM D1525, ISO 306/B50 3 ³
--	121	°C	ASTM D1525, ISO 306/A50 4 ⁴
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+11	ohms	ESD STM11.11, IEC 61340-2-3
Static Decay			
--		sec	ESD S20.20
--		sec	IEC 61340-5-1
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	190 - 210	°C	
Mold Temperature	30.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Injection Pressure: Medium to High			
NOTE			
1.	4 mm thickness		
2.	4 mm thickness		
3.	标准 B (120°C/h), 载荷2 (50N)		
4.	速率 A (50°C/h), 载荷2 (50N)		

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