

PRE-ELEC® PS 1326

Polystyrene Alloy

Premix Oy

Message:

PRE-ELEC® PS 1326 is a conductive thermoplastic compound based on polystyrene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity, PRE-ELEC® PS 1326 has excellent mechanical properties and is easy to injection mould. Typical applications include injection moulded tote bins and carrier tape reels for ESD sensitive products.

General Information			
Additive	Carbon Black		
Features	Conductive		
	Good Processability		
Uses	Containers		
	Crates		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.11	g/cm ³	ASTM D792
--	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
200°C/21.6 kg	55	g/10 min	
200°C/5.0 kg	1.2	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955, ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	99		
Shore D	73		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	22.8	MPa	ASTM D638
Yield	23.0	MPa	ISO 527-2
--	22.8	MPa	ASTM D638
--	23.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	80	%	
Flexural Modulus			
4.00 mm	1790	MPa	ASTM D790

4.00 mm	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹			
-20°C	6.3	kJ/m ²	ASTM D256
-20°C	7.0	kJ/m ²	ISO 179
23°C	9.0	kJ/m ²	ISO 179
23°C	8.4	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength ²			
-20°C	50	kJ/m ²	ASTM D256, ISO 179
23°C	No Break		ISO 179, ASTM D256
Notched Izod Impact (Area)			ASTM D256
-20°C, 4.00 mm	4.20	kJ/m ²	
23°C, 4.00 mm	6.30	kJ/m ²	
Notched Izod Impact Strength ³			ISO 180
-20°C	4.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Unnotched Izod Impact (Area)			ASTM D256
-20°C, 4.00 mm	44.1	kJ/m ²	
23°C, 4.00 mm	54.6	kJ/m ²	
Unnotched Izod Impact Strength ⁴			ISO 180
-20°C	44	kJ/m ²	
23°C	54	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	77.2	°C	ASTM D648B
0.45 MPa, Unannealed	77.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	67.2	°C	ASTM D648A
1.8 MPa, Unannealed	67.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	97.2	°C	ASTM D1525 ⁵
--	97.0	°C	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	IEC 61340-2-3
Volume Resistivity	< 1.0E+3	ohms · cm	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	200 to 260	°C	
Mold Temperature	30.0 to 70.0	°C	
Injection Pressure	75.0 to 120	MPa	
Injection Rate	Moderate		
NOTE			

1.	4 mm thickness
2.	4 mm thickness
3.	4 mm thickness
4.	4 mm thickness
5.	Rate A (50°C/h), Loading 2 (50 N)

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