

PRE-ELEC® PS 1324

PS extrusion compound Electrically conductive Applications: Sheets

Thermoformed trays

PRE-ELEC® PS 1324 is a carbon black filled conductive thermoplastic compound based on polystyrene. In addition to a low electrical resistivity It has an excellent balance of mechanical properties and is easy to extrude.

Special properties	Unit	Value	Method
Volume resistivity(*	Ω.cm	150	PRE021
Surface resistance (*	Ω	2E+03	IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity	g/cm3	1.08	ISO 1183
Melt flow rate at 200°C	g/10 min		ISO 1133
5.0 kg	Ü	0.8	
21.6 kg		45.0	
Mould shrinkage	%	0.5 - 0.7	ISO 294-4
Vicat, Rate A	°C	97	ISO 306/A50
HDT, 0.45 MPa	°C	79	ISO 75/Bf
HDT, 1.80 MPa	°C	67	ISO 75/Af
Mechanical properties	Unit	Value	Method
Tensile strength (*	MPa	22	ISO 527
Yield strength (*	MPa	20	ISO 527
Tensile strain at break (*	%	80	ISO 527
Tensile strain at yield (*	%	4	ISO 527
Flexural modulus	MPa	1800	ISO 178
Impact strength, Charpy	kJ/m2		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		14	
Unnotched, -20°C		60	
Notched, -20°C		10	
Hardness, Shore A	-	> 90	ISO 868
Hardness, Shore D	-	73	ISO 868



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This product is REACH and RoHS compliant

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Processing instructions

		Unit	Processing range
Extrusion			
	Cylinder temperature profile	°C	180 - 220
	Die temperature profile	°C	200 - 220
	Tool/Roll temperature	°C	90 - 60

Notes

Drying of the product is recommended for 2-3 hours at 80°C prior to use.

Processing conditions as with filled PS. These parameters are for guidance only. The process parameters should always be optimized for the used equipment. The instructions of the equipment manufacturer should be followed. Caution should be taken when handling molten material as it is extremely hot and may cause severe burns.

Storage

Product-specific details are mentioned in the notes above. The general minimum shelf life for Premix's product is 3 years with the following conditions: 1) original package is unopened, 2) the storage area and conditions provide protection from direct sunlight and significant changes in storage temperature, 3) the product is pre-dried accordingly before use.

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PS 1324-187