

Item Description Item ID

PRE-ELEC® PE 16006

PE16006

PE-HD injection moulding compound Typical end product Electrically conductive

Applications

Thin walled parts Pails Lids

PRE-ELEC® PE16006 is a conductive thermoplastic compound based on PE-HD. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC®PE 16006 has an excellent balance of mechanical properties and is easy to injection mould.

Special properties	Unit	Value	Method
Surface resistance	Ω	<1E07	IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity Melt flow rate at 190°C 2.16 kg 5.0 kg 10.0 kg	g/cm3 g/10 min	1,02 2,0 8 23	ISO 1183 ISO 1133
Mechanical properties	Unit	Value	Method
Tensile strength Yield strength Tensile strain at break Tensile strain at yield Flexural modulus Tensile modulus Impact strength, Charpy Unnotched, +23°C Notched, +23°C Unnotched, -20°C Notched, -20°C	MPa MPa % % MPa MPa kJ/m2	15 24 270 8 1000 1400 NB 63 22 5	ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 527 ISO 179



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Processing instructions

		Unit Processing		ange
Injection moulding				
	Material temperature	°C	210 - 2	50
	Mould temperature	°C	40 - 8	0
	Injection pressure	Bar	750 - 1	200
	Injection speed		m	noderate

Notes

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

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.

<u>Storage</u>

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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