Item Description Item ID

PP injection moulding compound Electrically conductive

PRE-ELEC[®] PP 19161 is a conductive thermoplastic compound based on polypropylene. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity, it has an excellent balance of mechanical properties and is easy to injection mould.

Special properties	Unit	Value	Method
Volume resistivity Surface resistance	Ω.cm Ω	90 4E+03	PRE021 IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity Melt flow rate at 230°C 2.16 kg	g/cm3 g/10 min %	1,02 3,4	ISO 1183 ISO 1133
Mould shrinkage Mechanical properties	% Unit	1,5 Value	ISO 294-4 Method
Tensile strength Tensile strain at break Flexural modulus Tensile modulus Impact strength, Charpy	MPa % MPa kJ/m2	15 18 1208 1320	ISO 527 ISO 527 ISO 178 ISO 527 ISO 179
Unnotched, +23°C Notched, +23°C Hardness, Shore A Hardness, Shore D	-	NB 66 95 65	ISO 868 ISO 868

Typical end product Applications

PRE-ELEC® PP 19161

PP19161

Boxes,Crates Technical parts

Technical Datasheet

PRI



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Processing instruction	IS			
		Unit	Processing range	
Injection moulding				
	Material temperature	°C	200 - 260	
	Mould temperature	°C	40 - 80	
	Injection pressure	Bar	600 - 800	
	Injection speed		moderate	

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.

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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