

# Item Description

## Item ID

PRE-ELEC<sup>®</sup> PP 19997  
PP19997

PP injection moulding compound  
Electrically dissipative

Typical end product  
Boxes, Crates

Applications  
Technical parts

PRE-ELEC<sup>®</sup> PP 19997 is a surface dissipative thermoplastic compound based on polypropylene. Electrical properties are achieved by using special conductive carbon black. It has excellent balance of mechanical properties and good charge dissipation properties. It is easy to injection mould and contains processing stabilizers.

Special properties	Unit	Value	Method
Surface resistance	Ω	1E3-1E5	IEC 61340-2-3

General properties	Unit	Value	Method
Density	g/cm <sup>3</sup>	1,01	ISO 1183
Melt flow rate at 230°C 2.16 kg	g/10 min	3,5	ISO 1133
Mould shrinkage	%	1,5	ISO 294-4
Vicat, Rate A	°C	154	ISO 306/A50
Vicat, Rate B	°C	83	ISO 306/B50
HDT, 0.45 MPa	°C	90	ISO 75/Bf
HDT, 1.80 MPa	°C	56	ISO 75/Af

Mechanical properties	Unit	Value	Method
Yield strength	MPa	26	ISO 527
Tensile strain at break	%	9	ISO 527
Tensile strain at yield	%	4	ISO 527
Flexural modulus	MPa	1740	ISO 178
Impact strength, Charpy	kJ/m <sup>2</sup>		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		14	
Unnotched, -20°C		NB	
Notched, -20°C		6	

MFR is measured from granulates.

Test specimen: injection moulded rod; ISO 527 TYPE 1A; Thickness: 10 mm, width: 4 mm



# Item Description

## Item ID

PRE-ELEC<sup>®</sup> PP 19997  
PP19997

Visit Premix Data Center for more detailed information of our products at [www.premixgroup.com/data-center/](http://www.premixgroup.com/data-center/)

### Processing instructions

	Unit	Processing range
Injection moulding		
Material temperature	°C	220 - 250
Mould temperature	°C	30 - 60
Injection pressure	Bar	600 - 1200
Injection speed		moderate

### Notes

Drying of the product is recommended for 2-4 hours at 80-100°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.

The information in this datasheet represents typical values obtained by us, and shall not be regarded as a product specification. The right to make any changes to the content and appearance of this document is reserved by Premix Oy. We condition that the product will be inspected and qualified by the customer for their process to meet the specific requirements set by application, processing equipment and the end product. The user of this product is held responsible for the evaluation of this product's suitability concerning applied legislation and possible patent infringements. We do not intentionally add or incorporate hazardous substances in our production.

PRE-ELEC<sup>®</sup> PP 19997 is a registered trademark of Premix.