product offers a cost-effective solution for big injection moulding articles.				
Special properties	Unit	Value	Method	
Volume resistivity	Ω.cm	1,2	PRE021	
Surface resistance	Ω	4E+02	IEC 61340-2-3	
		12.02	.200.01020	
General properties	Unit	Value	Method	
Specific gravity	g/cm3	1,12	ISO 1183	
Melt flow rate at 230°C	g/10 min		ISO 1133	
5.0 kg		1,2		
Mould shrinkage	%	1,8	ISO 294-4	
Vicat, Rate A	°C	152	ISO 306/A50	
Vicat, Rate B	°C	88	ISO 306/B50	
HDT, 0.45 MPa	°C	88	ISO 75/Bf	
HDT, 1.80 MPa	°C	57	ISO 75/Af	
Mechanical properties	Unit	Value	Method	
Meenamear properties	Onit	Value	Method	
Tensile strength	MPa	20	ISO 527	
Tensile strain at break	%	3	ISO 527	
Flexural modulus	MPa	1400	ISO 178	
Impact strength, Charpy	kJ/m2		ISO 179	
Unnotched, +23°C		NB		
Notched, +23°C		11		
Unnotched, -20°C		40		

2

95

71

PRE-ELEC[®] PP 18999 is a conductive thermoplastic concentrate based on polypropylene. Conductivity is achieved by using special conductive carbon black. It contains a high load of carbon black and it can be diluted with virgin or recycled PP. The actual amounts should always be tested as it also depends on the processing conditions. This product offers a cost-effective solution for big injection moulding articles

PP concentrate Electrically conductive

Typical end product Applications

MFR is measured from granulates

Test specimen: injection moulded rod; Thickness: 10 mm, width: 4 mm

Technical Datasheet

Item ID

Notched, -20°C

Hardness, Shore A

Hardness, Shore D

Item Description



PRE-ELEC® PP 18999

PP18999

Boxes, pallets **Technical parts**

ISO 868

ISO 868



PRE-ELEC® PP 18999

PP18999

Item Description Item ID

Visit Premix Data Center for more detailed information of our products at www.premixgroup.com/data-center-main

Processing instruction	IS		
		Unit	Processing range
Injection moulding			
	Material temperature	°C	220 - 260
	Mould temperature	°C	20 - 60
	Injection pressure	Bar	400 - 800
	Injection speed		Fast

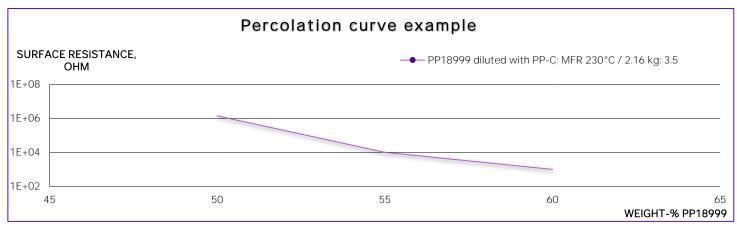
Notes

Drying of the product is recommended for 2-4 hours at 90°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.

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