

Item Description

Item ID

PP19279

PP concentrate

Typical end product

Corrugated board

Electrically conductive

Applications

Sheets

Profiles

PRE-ELEC® PP 19279 is a preliminary test formulation, more complete data set will be provided after the grade is commercially established. The product is an electrically 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 amount should always be tested as it also depends on the processing conditions.

The values with the exception of MFR are measured from dilution: 50% PP-C, MFI 4 (230°C/2.16 kg).

Special properties	Unit	Value	Method
Surface resistance(*)	Ω	7E+05	IEC 61340-2-3
General properties	Unit	Value	Method
Melt flow rate at 230°C 10.0 kg	g/10 min	2,0	ISO 1133
Mechanical properties	Unit	Value	Method
Tensile strength(*)	MPa	28	ISO 527
Tensile strain at break(*)	%	830	ISO 527
Flexural modulus	MPa	1200	ISO 178
Impact strength, Charpy	kJ/m2		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		65	
Hardness, Shore A	-	64	ISO 868

MFR is measured from granulates

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

*) extruded tape; Thickness 600-800 µm

Item Description

PRE-ELEC® PP 19279 Preliminary

Item ID

PP19279

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

Processing instructions

Extrusion		Unit	Processing range	
	Cylinder temperature profile	°C	200	- 220
	Die temperature profile	°C	210	- 220
	Tool/Roll temperature	°C	90	- 60

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.

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® is a registered trademark of Premix.

Contact our Sales and Customer Service teams for more information

www.premixgroup.com/contact
precise@premixon.com

www.premixgroup.com