Technical Datasheet

PREMIX

PRE-ELEC® PP 19279 Preliminary

Item Description

Item ID

PP19279

PP concentrate
Electrically conductive

Typical end product Applications

Corrugated board
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	g/10 min		ISO 1133
10.0 kg		2,0	
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**

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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.

Contact our Sales and Customer Service teams for more information
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