

Item Description

Item ID

PRE-ELEC[®] PP 16156
PP16156

PP extrusion compound
High electrical conductivity

Typical end product
Applications

Cast film

PRE-ELEC[®] PP 16156 is a very conductive thermoplastic compound based on polypropylene. The conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity, it has excellent processability in cast film extrusion.

Special properties	Unit	Value	Method
Volume resistivity(*)	Ω.cm	3	PRE021
General properties	Unit	Value	Method
Specific gravity	g/cm ³	1,03	ISO 1183
Melt flow rate at 230°C	g/10 min		ISO 1133
2.16 kg		1	
5.0 kg		15	
Mechanical properties	Unit	Value	Method
Tensile strength(*)	MPa	35	ISO 527
Tensile strain at break(*)	%	4	ISO 527

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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Processing instructions

	Unit	Processing range
Extrusion		
Cylinder temperature profile	°C	210 - 230
Die temperature profile	°C	230 - 230
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.

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PP16156-71