

Item Description

Item ID

PRE-ELEC[®] PP 15392
PP15392

PP concentrate
Electrically conductive

Typical end product
Applications

Corrugated board
Sheets
Profiles

PRE-ELEC[®] PP 15392 is 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 preferably with PP-C. The actual amount should always be tested as it also depends on the processing parameters.

The values with the exception of MFR are measured from dilution: 50% PP-C, MFI 3,5 (230°C/2.16 kg).

Special properties	Unit	Value	Method
Volume resistivity(*)	Ω.cm	150	PRE021
Surface resistance(*)	Ω	8E+03	IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity	g/cm ³	1,11	ISO 1183
Melt flow rate at 230°C	g/10 min		ISO 1133
5.0 kg		0,2	
10.0 kg		8	
21.6 kg		165	
Mould shrinkage	%	1.2 - 1.4	ISO 294-4
HDT, 0.45 MPa	°C	73,4	ISO 75/Bf
HDT, 1.80 MPa	°C	50,3	ISO 75/Af
Mechanical properties	Unit	Value	Method
Tensile strength(*)	MPa	24	ISO 527
Yield strength(*)	MPa	16	ISO 527
Tensile strain at break(*)	%	18	ISO 527
Tensile strain at yield(*)	%	7	ISO 527
Flexural modulus	MPa	1265	ISO 178
Impact strength, Charpy	kJ/m ²		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		64	
Hardness, Shore A	-	> 90	ISO 868
Hardness, Shore D	-	70	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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Processing instructions

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

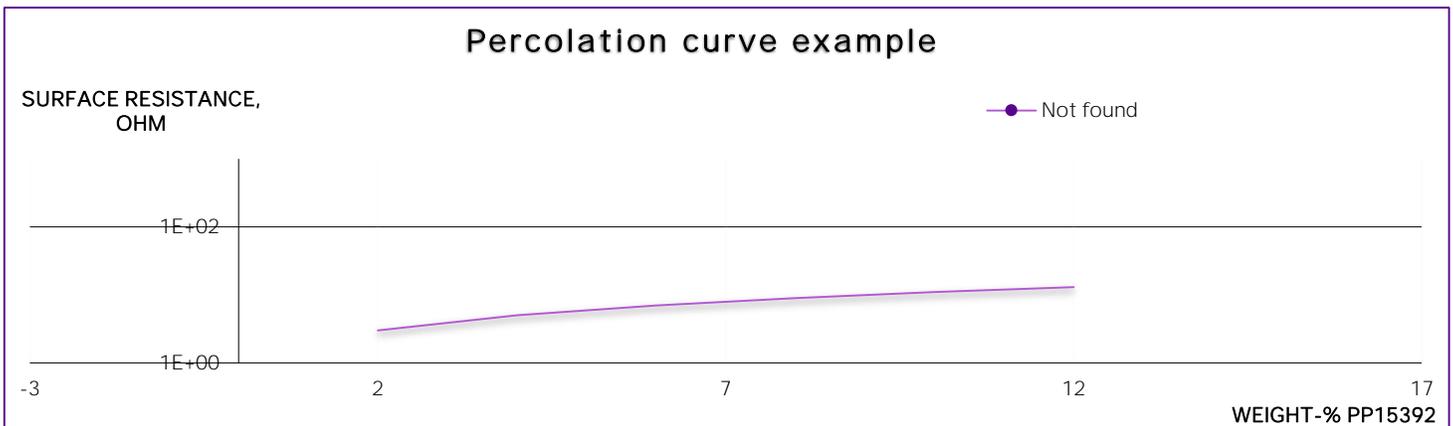
Notes

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.



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