

Item Description

Item ID

PRE-ELEC[®] CP 1515
1515

EVA concentrate
Electrically conductive

Typical end product
Foam

Applications
Sheets

PRE-ELEC[®] CP 1515 is a conductive thermoplastic concentrate based on polyolefin copolymer. In addition to a low electrical resistivity, the product has excellent mechanical properties and is easy to extrude. PRE-ELEC[®] CP 1515 has been developed especially for block-process foams. This product is designed to be used as a base for foaming applications, and does not contain any chemical foaming agents itself.

Special properties	Unit	Value	Method
Volume resistivity	Ω.cm	250	PRE021
Surface resistance	Ω	5E+03	IEC 61340-2-3

General properties	Unit	Value	Method
Density	g/cm ³	1.06	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
5.0 kg		1.2	
21.6 kg		50	
Mould shrinkage	%	1.2	ISO 294-4
Vicat, Rate A	°C	50	ISO 306/A50
Vicat, Rate B	°C		ISO 306/B50
HDT, 0.45 MPa	°C	35	ISO 75/Bf
HDT, 1.80 MPa	°C		ISO 75/Af

Mechanical properties	Unit	Value	Method
Stress at Break	MPa	11	ISO 527
Strain at break	%	450	ISO 527
Flexural modulus	MPa	110	ISO 178
Impact strength, Charpy	kJ/m ²		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		NB	
Unnotched, -20°C		NB	
Notched, -20°C		40	

MFR is measured from granulates.

Test specimen: injection moulded rod; ISO 527 TYPE 1A; Thickness: 10 mm, width: 4 mm

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Processing instructions

Extrusion

	Unit	Processing range		
Cylinder temperature profile	°C	180	-	200
Die temperature profile	°C	200	-	200
Tool/Roll temperature	°C	70	-	50

Notes

Drying of the product is recommended for 3 hours at 60°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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