

## Item Description Item ID

Typical end product Foam

**Applications** 

1515

EVA concentrate Electrically conductive

PRE-ELEC® CP 1515 is a conductive thermoplastic concentrate based on EVA. The conductivity is achieved by using a special conductive carbon black. PRE-ELEC® CP 1515 has been developed especially for block-process foams.

The provided percolation curve is for reference only. Dilution was performed on a lab scale, and conductivity was measured from a non-foamed tape sample. The optimal ratio of concentrate to dilution polymer must be determined through testing, as results will vary depending on processing conditions and dilution polymer.

This product is intended as a base material for foamed applications. It does not contain any chemical foaming agents.

The values are measured with non-diluted concentrate. The exception is SR, which is measured with 50% dilution.

Special properties	Unit	Value	Method
Volume resistivity	Ω.cm	250	PRE021
Surface resistance(* - See percolation curve	Ω	1E3-1E6	IEC 61340-2-3
General properties	Unit	Value	Method
Density	g/cm3	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	°С		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/m2		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		NB	
Unnotched, -20°C		NB	
Notched, -20°C		40	



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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**

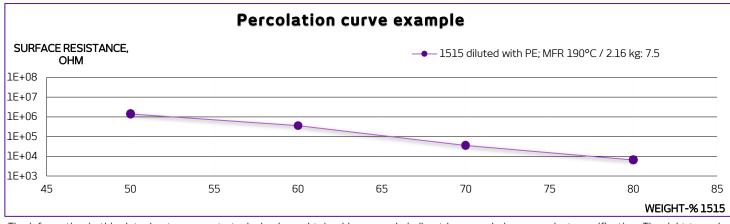
Drying of the product is recommended for 3 hours at 60°C prior to use.

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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