



PRE-ELEC<sup>®</sup> CC3501  
CC3501

# Item Description

## Item ID

PE extrusion compound  
Semiconductive

Typical end product  
Medium Voltage Cables

Applications  
Conductor Screen  
Insulation Screen

PRE-ELEC<sup>®</sup> CC3501 is a thermoplastic polyethylene conductor and insulation screen for medium voltage XLPE-cables. The product has premium surface quality and dispersion of carbon black. It is easy to extrude with high and consistent level of quality.

Special properties	Unit	Value	Method
Volume resistivity(* 23 °C	Ω.cm	30	PRE021
General properties	Unit	Value	Method
<b>Density</b>	g/cm <sup>3</sup>	1,04	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
5.0 kg		5.0	
21.6 kg		29	
Mechanical properties	Unit	Value	Method
Stress at break(*	MPa	16	ISO 527
Strain at break(*	%	>450	ISO 527
Hardness, Shore D	-	55	ISO 868

MFR is measured from granulates. Tensile test speed: 25 mm/min, Sample test length 50mm  
 Test specimen: injection moulded rod; ISO 527 TYPE 1A; Thickness: 10 mm, width: 4 mm  
 (\* extruded tape; ISO 527-2 Type 5A, thickness 1 500 - 2 000 µm



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Processing instructions

	Unit	Processing range
Extrusion		
Cylinder temperature profile	°C	160 - 210
Die temperature profile	°C	160 - 230

Notes

Drying of the product is recommended for 2-3 hours at 60-80°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. Overheated material can be cooled with e.g. water.

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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