



PRE-ELEC[®] CC9101
CC9101

Item Description
Item ID

PE-LLD extrusion compound
Semiconductive

Typical end product
Cable

Applications
Conductor Screen
Insulation Screen

PRE-ELEC[®] CC9101 is a thermoplastic polyethylene conductor and insulation screen for insulating down-conductors used in lightning protection systems. The product has excellent mechanical properties and is easy to extrude.

This product is designed to meet the standard: IEC TS 62561-8

Special properties	Unit	Value	Method
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Volume resistivity(*)	Ω.cm	30	PRE021
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General properties	Unit	Value	Method
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Density	g/cm ³	1,05	ISO 1183
Melt flow rate at 190°C 5.0 kg	g/10 min	1,5	ISO 1133

Mechanical properties	Unit	Value	Method
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Stress at break(*)	MPa	30	ISO 527
Strain at break(*)	%	>500	ISO 527
Flexural modulus	MPa	280	ISO 178
Hardness, Shore D	-	50	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	160 - 200
Die temperature profile	°C	190 - 200

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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