

Item Description

Item ID

PRE-ELEC[®] CC2101
CC2101

Cable extrusion compound
Semiconductive
PP-TPE

Typical end product
Medium Voltage Cables

Applications
Conductor Screen
Insulation Screen

PRE-ELEC[®] CC 2101 is a thermoplastic cable compound designed for conductor screen and insulation screen layers for medium voltage PP-TPE power cable applications. It has well balanced material and electrical properties with premium surface quality and dispersion of carbon black. It is easy to extrude with high and consistent level of quality.

This product is compliant with HD 620 S3 Part 12 standard requirements.

Special properties	Unit	Value	Method
Volume resistivity(*)	Ω.cm		PRE021
23°C		30	
90°C		<100	
General properties	Unit	Value	Method
Density	g/cm ³	1,04	ISO 1183
Melt flow rate at 230°C	g/10 min		ISO 1133
5.0 kg		0,4	
10.0 kg		2	
Mechanical properties	Unit	Value	Method
Stress at break(*)	MPa	17	ISO 527
Strain at break(*)	%	>450	ISO 527
Change of tensile properties after ageing 135°C, 240 h	%	<20	
Flexural modulus	MPa	220	ISO 178
Hardness, Shore D	-	45	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	170 - 210
Die temperature profile	°C	180 - 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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