

# Item Description

## Item ID

PRE-ELEC<sup>®</sup> CC7102  
CC7102

PE-LLD extrusion compound

Typical end product  
Cable

Applications  
Semiconductive cable jacket

PRE-ELEC<sup>®</sup> CC7102 is a semiconductive thermoplastic compound based on linear low density polyethylene for cable jacketing applications. It is engineered to have excellent ESCR-properties with good surface quality and dispersion of carbon black. It is easy to extrude with high and consistent level of quality. Designed to meet the standards: IEC 60502-2, IEC 60840, IEC 62067, IEC 62895 ST7.

Special properties	Unit	Value	Method
Volume resistivity(*)	Ω.cm		
23 °C		30	PRE021
90 °C		<500	Mod. ISO 3915
General properties	Unit	Value	Method
Density	g/cm <sup>3</sup>	1,07	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
5.0 kg		1,1	
21.6 kg		15	
Mechanical properties	Unit	Value	Method
Stress at break(*)	MPa	28	ISO 527
Strain at break(*)	%	600	ISO 527
Flexural modulus	MPa	350	ISO 178
Hardness, Shore D	-	53	ISO 868
Change of tensile properties after ageing 110°C, 240 h	%	<20	
Environmental stress cracking resistance E.S.C.R.			ASTM D 1693
F0, 50 °C Igepal 100%	h	>500	

MFR is measured from granulates.

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

(\* extruded tape; ISO 527-2 Type 5A, thickness 400 - 800 µm

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### Processing instructions

	Unit	Processing range		
Extrusion				
Cylinder temperature profile	°C	200	-	240
Die temperature profile	°C	210	-	250
Tool/Roll temperature	°C	50	-	70

### 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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