



PRE-ELEC[®] CC8201
CC8201

PE-HD extrusion compound
Semiconductive

Typical end product
Cable

Applications
Semiconductive extruded filler

PRE-ELEC[®] CC8201 is a semiconductive thermoplastic compound based on PE-HD for extruded filler applications in umbilical cables. It offers high electrical and thermal conductivity, combined with an excellent balance of mechanical properties.

Special properties	Unit	Value	Method
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Volume resistivity(*)	Ω.cm	50	PRE021
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General properties	Unit	Value	Method
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Density	g/cm3	1,04	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
10.0 kg		0,7	
21.6 kg		6	
Vicat, Rate A	°C	126,0	ISO 306/A50
Vicat, Rate B	°C	60	ISO 306/B50

Mechanical properties	Unit	Value	Method
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Stress at break(*)	MPa	26	ISO 527
Strain at break(*)	%	650	ISO 527
Flexural modulus	MPa	1200	ISO 178
Impact strength, Charpy	kJ/m2		ISO 179
Unnotched, +23°C		NB	
Notched, +23°C		40	
Unnotched, -20°C		NB	
Notched, -20°C		23	
Hardness, Shore D	-	70	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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Item Description

Item ID

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Processing instructions

		Unit	Processing range	
Extrusion	Cylinder temperature profile	°C	200	- 230
	Die temperature profile	°C	220	- 240

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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