

AXELERON™ CC 3485 NT CPD

High Density Polyethylene Cellular Insulation Compound

The Dow Chemical Company

Message:

AXELERON™CC B- 3485 NT is a foamable, high molecular weight, high density polyethylene insulation material, specially used for foaming/skin single-core telephone lines. The material contains a chemical foaming agent, which can obtain a 50% foaming amount when temperature controlled extrusion processing is adopted. This highly stable product has excellent mechanical and electrical properties and is used in high-speed extrusion processing lines.

Specification requirements:

Under the conditions of adopting the correct commercial extruder extrusion processing specifications, use AXELERON™CC B- 3485 NT telephone line as insulating material should meet the requirements of the following specifications:

REA PE "filled telephone cable with foam insulation"

ICEA S-84-608 "Telecom Cable; Filled Polyolefin Insulated Copper Wire-Technical Requirements"

General Information			
Uses	Thin wall insulation Telephone insulator Wire and cable applications Foam Communication Equipment		
Agency Ratings	ICEA S-84-608 REA PE-Unrated		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.945	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³	22.1	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Heat resistant stress crack-F0	> 96	hr	ASTM D2951
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Constant ⁵ (1 MHz)	2.34		ASTM D1531
Dissipation Factor ⁶ (1 MHz)	3.0E-4		ASTM D1531

Extrusion instructions

加工技巧AXELERON™ CC 3485 NT CPD 复合物通过温度控制的挤出方式发生膨胀.具体的挤出条件取决于挤塑机尺寸,槽的位置,导体预热,生产线速度和所需的膨胀程度.但是,只有已知应用方式和加工设备的类型时,才能给出加工条件的具体建议.

NOTE

1.	Solid
2.	Base resin
3.	Solid
4.	Solid
5.	Solid
6.	Solid

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