

# AXELERON™ CX 6944 NT CPD

High Density Polyethylene Insulation Compound

The Dow Chemical Company

Message:

High density insulating material

AXELERON™CX A- 6944 NT is a high-density polyethylene resin used to make air-injected foaming insulation materials for CATV cables. This high-density polyethylene resin has excellent electrical properties and toughness, as well as the stability required in its application field. AXELERON™CX A- 6944 NT often and AXELERON™CX 1253 NT CPD LDPE is used together. In order to achieve the optimal cell structure, it is recommended to add 0.1% to 0.3% nucleating agents, such as AXELERON.™CX A- 0012 NT CPD and AXELERON™Nucleating agent added to CX 0078 NT CPD masterbatch.

Specifications

AXELERON™CX A- 6944 NT meets the following raw material specifications:

ASTM D 1248 Type IV, Class A, Category 3

Under the conditions of adopting the correct commercial extruder extrusion processing specifications, use AXELERON™CX A- 6944 NT wires as insulating materials should meet the following specifications:

Telecordia GR-1398-CORE

Telecordia GR-1399-CORE

General Information			
Additive	Nucleating agent		
Uses	Coaxial Cable Insulation		
	Wire and cable applications		
	Communication wire insulation material		
	Communication Equipment		
Agency Ratings	ASTM D 1248, IV, Class A, Cat. 3		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.965	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	33.1	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -100	°C	ASTM D746
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.34		ASTM D1531
Dissipation Factor (1 MHz)	4.0E-5		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 179	°C	
Extrusion instructions			

Melt extrusion temperatures in the range of 320 to 355°F (160 to 179°C) are suggested for AXELERON™ CX 6944 NT CPD.

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