

# AXELERON™ CX 1253 NT CPD

Low Density Polyethylene Insulation Compound

The Dow Chemical Company

## Message:

Low density insulating material

AXELERON™CX A- 1253 NT is a medium-molecular-weight, low-density polyethylene insulating resin, which is used in a variety of applications that require strict electrical properties. DFDA-1253 Natural can be used as a part of resin in the gas injection process for the preparation of foam insulation materials for coaxial cables.

Specifications

AXELERON™CX A- 1253 NT meets the following raw material specifications:

ASTM D 1248 Type 1, Class A, Category 3

Federal LP-390C Type 1, Class L, Grades 1 and 2, Category 3

General Information			
Uses	Coaxial Cable Insulation		
	Wire and cable applications		
	Communication wire insulation material		
	Communication Equipment		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3		
	FED L-P-390C		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	11.4	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup> (3.18 mm)	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.27		ASTM D1531
Dissipation Factor (1 MHz)	7.0E-5		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	
Extrusion instructions			
AXELERON™ CX 1253 NT CPD provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, use melt extrusion temperatures in the suggested range of 375 to 425°F (190 to 220°C). However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known.			
NOTE			

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#### Recommended distributors for this material

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