

AXELERON™ CS 7540 NT CPD

Linear Low Density Polyethylene Insulation Compound

The Dow Chemical Company

Message:

AXELERON™ CS 7540 NT CPD is a linear low-density polyethylene (LLDPE) extrusion compound ("CPD") produced by the UNIPOL™ PE Process. It is a general purpose insulation that can be used as a high speed telephone singles insulation (air-core cable only; not recommended for jelly-filled cable) and high frequency coaxial inner skin. It combines excellent electrical properties with outstanding stress crack resistance.

Specifications:

AXELERON™ CS 7540 NT CPD meets the following raw material specifications:

ASTM D-1248 Type I Category 4, Grade E4, E5

Federal LP-390 C, II-L, Grade 3, Category 4

REA Specification PE-200, Appendix A

ISO 1872-PE

KHKN,18-D006

Cables insulated with AXELERON™ CS 7540 NT CPD using sound commercial extrusion practice, should meet the following industry cable specification:

ASTM: D 1351-02

EN-50290-2-23

IEC 60708

General Information			
Uses	Wire and cable applications		
	Solid insulation		
	Communication wire insulation material		
	Communication Equipment		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4, Grade E4		
	ASTM D 1248, I, Class A, Cat. 4, Grade E5		
	EN 50290-2-23		
	IEC 60708		
	ISO 1872 PE KHKN 18D006		
	REA PE-200, Appendix A		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 504	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	15.9	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -100	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity (-5°C)	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ¹ (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1 Hz)	2.29		ASTM D1531
Dissipation Factor (1 Hz)	7.0E-5		ASTM D1531

Extrusion	Nominal Value	Unit
Melt Temperature	204 - 218	°C

Extrusion instructions

AXELERON™ CS 7540 NT CPD provides excellent surface finish at high coating speeds. For optimum results, use melt extrusion temperatures in the suggested range of 400 to 425°F (204 to 220°C). However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known.

NOTE

1. Method A (short time)

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