



AXELERON™ CX 6940 NT CPD

High Density Polyethylene Insulation Compound

Overview

AXELERON™ CX 6940 NT CPD is a high density polyethylene compound ("CPD") for use in gas-injected foam insulation for CATV cable. AXELERON™ CX 6940 NT CPD is commonly used in combination with a low density polyethylene resin such as DFDA-1253 NT. To obtain optimal cellular structure, an additional 0.1% to 0.3% of a suitable nucleating agent is recommended such as those in DFNA-0012 NT and DFNA-0078 NT masterbatches.

Specifications

AXELERON™ CX 6940 NT CPD meets the following raw material specification:

- ASTM D 1248 Type IV, Class A, Category 3

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.965 g/cm ³	0.965 g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	8.3 g/10 min	8.3 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break)	350 %	350 %	ASTM D638
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -105 °F	< -76.0 °C	ASTM D746
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Constant (1 MHz)	2.34	2.34	ASTM D1531
Dissipation Factor (1 MHz)	4.0E-5	4.0E-5	ASTM D1531

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

