

AXELERON™ CX 1258 NT CPD Low Density Polyethylene Insulation Compound

Overview

AXELERON™ CX 1258 NT CPD is a medium molecular weight, low density polyethylene insulation compund ("CPD") for use in gas-injected foam insulation for coaxial/RF cables. AXELERON™ CX 1258 NT CPD can be used in combination with a high density polyethylene resin such as DGDA-6944 NT. To obtain optimal cellular structure, an additional 0.1% to 0.3% of a suitable nucleating agent is recommended, such as DFNA-0012 NT and DFNA-0078 NT masterbatches

Main Characteristics

- · Low dissipation factor performance
- · Excellent compatibility with HDPE

The polymeric material, using industry standard commercial extrusion practice, is compliant for use in Wire and Cable components that meet cable specification(s):

• ASTM D 1248 Type 1, Class A, Category 3

Consult the regulations for complete details.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density ¹	0.922	g/cm³	0.922	g/cm³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	6.0	g/10 min	6.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength	1560	psi	10.8	MPa	ASTM D638
Tensile Elongation (Break)	500	%	500	%	ASTM D638
Electrical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Dielectric Constant (2.47 GHz)	2.27		2.27		ASTM D1531
Dissipation Factor (2.47 GHz)	1.5E-4		1.5E-4		ASTM D1531

Extrusion	Nominal Value (English)	Nominal Value (SI)	
Cylinder Zone 1 Temp.	302 °F	150 °C	
Cylinder Zone 2 Temp.	320 °F	160 °C	
Cylinder Zone 3 Temp.	338 °F	170 °C	
Cylinder Zone 4 Temp.	347 °F	175 °C	
Cylinder Zone 5 Temp.	347 °F	175 °C	
Head Temperature	347 °F	175 °C	
Die Temperature	347 °F	175 °C	

Notes

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

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¹ 23°C

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