

Technical Information



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 compound ("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/cm ³	0.922 g/cm ³	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.

¹ 23°C



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PETROMALL INDUSTRY & TRADING CO

Additional Information

www.dow.com

North America

U.S. & Canada:

1-800-441-4369

1-989-832-1426

Mexico:

+1-800-441-4369

Latin America

Argentina:

+54-11-4319-0100

Brazil:

+55-11-5188-9000

Colombia:

+57-1-219-6000

Mexico:

+52-55-5201-4700

Europe/Middle East

+800-3694-6367

+31-11567-2626

Italy:

+800-783-825

South Africa

+800-99-5078

Asia Pacific

+800-7776-7776

+603-7965-5392

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 petromall.net

 info@petromall.ps

 +970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

