

# AXELERON™ CX 1258 NT CPD

Low Density Polyethylene Insulation Compound

The Dow Chemical Company

## Message:

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.

General Information			
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.922	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10.8	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Electrical	Nominal Value		Test Method
Dielectric Constant (2.47 GHz)	2.27		ASTM D1531
Dissipation Factor (2.47 GHz)	1.5E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	170	°C	
Cylinder Zone 4 Temp.	175	°C	
Cylinder Zone 5 Temp.	175	°C	
Head Temperature	175	°C	
Die Temperature	175	°C	
NOTE			
1.	23°C		

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