

# AXELERON™ CX A-0012 NT CPD

Nucleating Agent Masterbatch

The Dow Chemical Company

## Message:

Dow AXELERON™CX A- 0012 NT is a masterbatch, which is used as a nucleating agent in gas injection processing. It is specially developed for easy mixing with DGDA-6944 NT or DGDB-6944 NT HDPE and DFDA-1253 NT LDPE. If used properly, the product will form a small, evenly distributed cell structure. The masterbatch is based on high-pressure LDPE resin and is added with a 10% heating chemical foaming agent. The use of this product should be 0.1% to 0.3% nucleating agent content, or 1-3% masterbatch content. Typical applications include CATV lead-in cables, models 59, 6, 7 and 11.

General Information			
Uses	Coaxial Cable Insulation		
	Wire and cable applications		
	Masterbatch		
	Foam		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Extrusion instructions			
AXELERON™ CX A-0012 NT CPD is designed to be extruded with Dow's gas injection compounds AXELERON™ CX 6944 NT CPD HDPE and AXELERON™ CX 1253 NT CPD LDPE. It is normally added at 1-3% masterbatch concentration into a blend of 60-80% 6944 and 20-40% 1253.While the exact temperature profile required will depend upon the screw design and construction being made, the following extrusion temperature profile represents a good starting point: Feed Zone: 285-300°F (140-150°C) Transition Zone: 340-355°F (170-180°C) Gas Injection Point: 340-375°F (170-190°C) Metering Zone: 285-340°F (140-170°C); depends on diameter insulation Crosshead and Die: 265-320°F (130-160°C); depends on diameter insulation			
NOTE			
1.	Base Resin		

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