

AXELERON™ CS 6005 NT CPD

Low Density Polyethylene Solid Insulation Compound
The Dow Chemical Company

Message:

AXELERON™CS B- 6005 NT is a high molecular weight, low density polyethylene insulation material, which combines mechanical and electrical properties well, making it suitable as the main dielectric material.
AXELERON™CS B- 6005 NT meets the following raw material specifications:
ASTM D 1248 IA-5, Grades E4 vs. E5
Federal LP-390C II-L, Grade 3, Category 5
MIL-C-17F, Amendment 1, Paragraph 3.5.2.1, Type A

General Information			
Uses	Wire and cable applications		
	Solid insulation		
	Communication wire insulation material		
	Communication Equipment		
	Medium voltage insulation		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F20)	> 96.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	15.2	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (-5°C)	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹ (3.18 mm)	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.28		ASTM D1531
Dissipation Factor (1 MHz)	2.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	191 - 218	°C	
Extrusion instructions			
AXELERON™ CS 6005 NT CPD provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, use melt extrusion temperatures in the suggested range of 375 to 425°F (191 to 218°C). However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known.			
NOTE			
1.	Method A (short time)		

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