

AXELERON™ GP 7590 NT CPD

Colorable High Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

AXELERON™GP A- 7590 NT is a bimodal polyethylene resin used in communication and power cable sheathing. AXELERON™GP A- 7590 NT has excellent environmental stress cracking resistance and low temperature performance.

Specifications

AXELERON™GP A- 7590 NT meets the following material specifications:

ASTM D1248 Type III, Class A, Category 5, Grade J5

General Information			
Uses	Cable sheath		
	Wire and cable applications		
	Optical fiber cable		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.080	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	740	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Slow crack propagation PENT	> 6000	hr	ASTM F1473
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.33		ASTM D1531
Dissipation Factor (1 MHz)	1.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 227	°C	
Extrusion instructions			

The suggested melt temperature range is 380-440°F (193-227°C).

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