



# AXELERON™ GP 7590 NT CPD

## Colorable High Density Polyethylene Compound for Cable Jacketing

**Overview** AXELERON™ GP 7590 NT CPD is a Bimodal Polyethylene Compound ("CPD") which is designed for communications and power cable jacketing applications. AXELERON™ GP 7590 NT CPD has excellent Environmental Stress Crack Resistance and low temperature performance.

**Specifications**

AXELERON™ GP 7590 NT CPD meets the following material specification:

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.949 g/cm <sup>3</sup>	0.949 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.080 g/10 min	0.080 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation (Break)	740 %	740 %	ASTM D638
Flexural Modulus	150000 psi	1030 MPa	ASTM D790
Slow Crack Growth PENT	> 6000 hr	> 6000 hr	ASTM F1473
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746A
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Constant (1 MHz)	2.33	2.33	ASTM D1531
Dissipation Factor (1 MHz)	1.0E-4	1.0E-4	ASTM D1531
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	380 to 440 °F	193 to 227 °C	

**Extrusion Notes**

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

**Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

