AXELERON™ GP K-3479 BK CPD

Black High Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

AXELERON™ GP K-3479 BK CPD is a high-molecular weight, high density polyethylene compound ("CPD") produced from resin made by the UNIPOL™ process. AXELERON™ GP K-3479 BK CPD is a prime quality telephone and power cable black jacketing that provides good toughness, stress-cracking resistance, outdoor weatherability and abrasion resistance.
Specifications
AXELERON™ GP K-3479 BK CPD meets the following raw material specifications:
ASTM D-1248: Type III, Class C, Category 5, Grades E10 and J4, J5
Federal LP-390C: Type III, Class H, Grade 1, Category 5
REA PE 39 and PE 89 (Raw Material Sections)
Cable jacketed with AXELERON™ GP K-3479 BK CPD, using sound commercial extrusion practices, should meet the following specifications:
ICEA: S-61-402; NEMA WC5
REA PE 39 and PE 89
ANSI: C8.35
IEC 60502

General Information	
Uses	Cable sheath Cable sheath Wire and cable applications Optical fiber cable
Agency Ratings	ANSI C 8.35 ASTM D 1248, III, Class C, Cat. 5 ICEA S-61-402 IEC 60502 NEMA WC-5 REA PE-39 REA PE-89
Forms	Particle

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 336	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Absorption Coefficient - (kAB/m)	> 400		ASTM D3349
Tensile strength retention-48 hrs (100°C)	90	%	ASTM D638
Elongation retention rate-48 hrs (100°C)	95	%	ASTM D638

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638

Yield	20.7	MPa	ASTM D638
--	29.0	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature [1]	< -100	°C	ASTM D746
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.56		ASTM D1531
Dissipation Factor (1 MHz)	3.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	232 - 249	°C	

Extrusion instructions
AXELERON™ GP K-3479 BK 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 450-480°F (232-249°C). Hopper drying at 180°F (82°C) to remove moisture is recommended. However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known.

NOTE	
1.	F50

Recommended distributors for this material

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