

AXELERON™ GP 6059 BK CPD

Black Linear Low Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

AXELERON™ GP 6059 BK CPD is a prime quality telephone cable black jacketing compound ("CPD"). It offers improved low temperature and high temperature performance plus excellent environmental stress-cracking resistance, outdoor weatherability, and toughness.

Specifications

AXELERON™ GP 6059 BK CPD meets the following raw material specifications:

- ASTM D 1248 IC-4, Grades E5, J1, J3
- Federal LP-390C III-L, Grades 2, 3, 4 and Category 4
- REA PE-22, 38, 39, 86, 89, 90 (Raw Materials Sections)
- ISO 1872-PE, KCH, 18-D006
- GB/T 15065

Cable jacketed with AXELERON™ GP 6059 BK CPD, using sound commercial extrusion practices, should meet the following specifications:

- ICEA: S-83-640
- ASTM D 2308
- Telcordia GR-421-CORE
- EN 50290-2-24
- IEC 60708
- YD/T 901
- IEC 60502 ST3, ST7
- IEC 60840 ST3, ST7
- HD 620 S2, Part 1, Table 4B, DMP 10, DMP 14, DMP 17
- ICEA S-94-649
- ICEA S-97-682
- ICEA S-108-720
- ICEA S-84-608
- YD/T 1092
- IEC 62067, ST3, ST7
- IEC 60794

General Information	
Uses	Cable sheath
	Cable sheath
	Wire and cable applications
	Wire sheath
	Communication wire sheath
Agency Ratings	AAMA 303
	ASTM D 1248, I, Class C, Cat. 4, Grade E5
	ASTM D 1248, I, Class C, Cat. 4, Grade J1
	ASTM D 1248, I, Class C, Cat. 4, Grade J3
	EN 50290-2-24
	FED L-P-390C, Type III, Class L, Category 4, Grade 2
	FED L-P-390C, Type III, Class L, Category 4, Grade 2
	ICEA S-108-720
	ICEA S-84-608
	ICEA S-94-649

ICEA S-97-682
 IEC 60502 Type ST3
 IEC 60502 Type ST7
 IEC 60708
 IEC 62067 Type ST7
 REA PE-22
 REA PE-38
 REA PE-39
 REA PE-89

Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.932	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (10% Igepal, F0)	> 1000	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Absorption Coefficient - (kAB/m)	> 400		ASTM D3349
Oxidation Induction Time (200°C)	120	min	ASTM D3895
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	21.0	MPa	IEC 60811-502
--	16.2	MPa	ASTM D638
Tensile Elongation			
Fracture	900	%	IEC 60811-502
Fracture	700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			ASTM D746
-- ²	< -100	°C	ASTM D746
-- ³	< -76.0	°C	ASTM D746
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.48		ASTM D1531
Dissipation Factor (1 MHz)	3.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	218 - 246	°C	
Extrusion instructions			

AXELERON™ GP 6059 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 425 to 475°F (218 to 246°C). Hopper drying at 150-160°F (67-71°C) is recommended to remove moisture.

NOTE	
1.	Typical value per IEC 60811-406 > 1000 hrs.
2.	F50

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

