AXELERON™ GP C-0588 BK CPD

Black Low Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

High voltage low density cable sheath material
AXELERON™GP C- 0588 BK is a high-quality black sheath material for telecommunications cables, containing furnace black. The product has excellent environmental stress cracking resistance, outdoor weather resistance, low temperature performance and extrudable performance. AXELERON™GP C-0588 BK contains a small amount of anti-dripping additive for the machine head.
Specifications
AXELERON™GP C- 0588 BK meets the following raw material specifications:
ASTM D 1248 IC-5, Grades E5, J1, J3
Federal LP-390C, III-L, Grades 2, 3 and 4, Category 5
REA PE-22, 38, 39, 86, 89, 90
Under the conditions of adopting the correct commercial extruder extrusion processing specifications, use AXELERON™GP C- 0588 BK cable as sheath material should meet the following specifications:
ICEA: S-61-402; NEMA WC5
ANSI: C8. 35
ASTM: D 2308
UK Post Specification M-132G
Telcordia GR 421 Core
ANSI/ICEA S-84-608-1988

General Information	
Uses	Telephone lead wire sheath material
	Cable sheath
	Wire and cable applications
	Wire sheath
	Coaxial cable sheath material
Agency Ratings	ANSI C 8.35
	ASTM D 1248, I, Class C, Cat. 5, Grade E5
	ASTM D 1248, I, Class C, Cat. 5, Grade J3
	FED L-P-390C, Type III, Class L, Category 5, Grade 4
	ICEA S-61-402
	NEMA WC-5
	REA PE-22
	REA PE-38
	REA PE-39
	REA PE-89
Forms	Particle
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.932	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.34	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (10% Igepal, F20)	> 500	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Absorption Coefficient - (kAB/m)	> 400		ASTM D3349
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	10.9	MPa	ASTM D638
--	16.4	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	2.54		ASTM D1531
Dissipation Factor (1 MHz)	2.0E-4		ASTM D1531
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	204 - 227	°C	

Extrusion instructions

AXELERON™ GP C-0588 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 400 to 440 °F (204-227°C). Hopper drying at 150-160 °F (67-71°C) to remove moisture is recommended.

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