

AXELERON™ GP 6314 BK CPD

Linear Low Density Polyethylene
The Dow Chemical Company

Message:

AXELERON™ GP 6314 BK CPD is a linear low density based polyethylene jacket compound ("CPD"). This compound provides a good balance of processability, toughness, stress-cracking resistance, abrasion resistance, and weather resistance. AXELERON™ GP 6314 BK CPD is designed for use as a general purpose jacket for telecommunication cables.

- Main Characteristics:
- Good toughness
 - Good Stress Cracking Resistance
 - Good Abrasion Resistance
 - Excellent Processability

General Information			
Uses	Cable sheath		
	Coaxial cable sheath material		
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)	1.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 1000	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Absorption Coefficient - (kAB/m)	> 400		ASTM D3349
Tensile strength retention-after 48 hrs (100°C)	> 85	%	ASTM D638
Elongation retention rate-after 48 hrs (100°C)	> 90	%	ASTM D638
Oxidation Induction Time (200°C)	> 30	min	ASTM D3895
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16.2	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.50		ASTM D1531
Dissipation Factor (1 MHz)	3.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	115 - 140	°C	
Extrusion instructions			

AXELERON™ GP 6314 BK CPD Jacket Compound can be processed in a wide range of extrusion equipment using flat profiles of 265 - 320°F (130 - 160°C). Hopper drying at 175°F (80°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.

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