

DOW™ Electrical & Telecommunications

DGDL-3479 BK

Black High Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

DGDL-3479 BK is a High Density Polyethylene compound produced from resin made by the UNIPOL™ process technology. DGDL-3479 BK is a prime quality telephone and power cable black jacketing that provides good toughness, excellent stress-cracking resistance, and abrasion resistance.

Specifications

DGDL-3479 BK meets the following raw material specifications:

ASTM D-1248: Type III, Class C, Category 5, Grades E10 and J4, J5

Cable jacketed with DGDL-3479 BK, using sound commercial extrusion practices, should meet the following specifications:

ICEA: S-61-402; NEMA WC5

ANSI: C8.35

IEC 60502

General Information			
Uses	Cable sheath		
	Cable sheath		
	Wire and cable applications		
Agency Ratings	ANSI C 8.35		
	ASTM D 1248, III, Class C, Cat. 5 Grades E10, J4, J5		
	ICEA S-61-402		
	IEC 60502		
	NEMA WC-5		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.050	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 1000	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Absorption Coefficient - (kAB/m)	> 400		ASTM D3349
PENT	200	hr	ASTM F1473
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	22.1	MPa	ASTM D638
Tensile Elongation (Break)	850	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature ¹	< -50.0	°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	235 - 255	°C	
Extrusion instructions			
加工和处理技巧:DGDL-3479 BK 加工指导原则中包括使用建议的 455 到 491°F (235-255°C) 的熔体挤出温度范围.料筒在 180°F (82°C) 下干燥以去除湿气.但是,只有已知应用方式和加工设备的类型时,才能给出加工条件的具体建议.			
NOTE			
1.	F50		

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