

HANWHA CLBB-850BK

Low Density Polyethylene

Hanwha Chemical

Message:

Hanwha CLBB-850BK is a black low density polyethylene(LDPE) compound designed for telephone cable jacketing applications. It provides excellent environmental stress crack resistance(ESCR), low temperature performance, processability and good physical properties. It contains 2.6% well-dispersed carbon black to ensure excellent weathering resistance.

General Information			
Features	Low density		
	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Good weather resistance		
	Excellent appearance		
Uses	Cable sheath		
	Wire and cable applications		
Agency Ratings	ANSI C 8.35		
	ASTM D 1248, I, Class C, Cat. 5 Grade J1		
	ASTM D 1248, I, Class C, Cat. 5, Grade E5		
	ASTM D 1248, I, Class C, Cat. 5, Grade J3		
	BS 6234 Type H03C, TS2		
	ICEA S-61-402		
	ICEA S-84-608 1988		
	IEC 60502 Type ST3		
	IEC 60502 Type ST7		
	IEC 60840 Type ST7		
Appearance	Black		
	Particle		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 2000	hr	ASTM D1693
Carbon Black Content	2.6	%	ASTM D1603
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, 1 sec)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16.2	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Oven Aging (100°C)	10.0	day	
Tensile strength retention-10 days (100°C)	> 85	%	ASTM D638
Retention of Tensile Elongation - 10 days (100°C)	> 85	%	ASTM D638
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
Oxygen sensing time-AI (200°C)	> 100	min	ASTM D3895
Light Absorption Coefficient	> 400	Abs/mm	ASTM D3349
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.40		ASTM D150
Dissipation Factor (1 MHz)	5.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 230	°C	
Extrusion instructions			
Hopper drying : 70°C/3hrs is recommended			

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