

HANWHA CLBA-8450BK

Linear Low Density Polyethylene
Hanwha Chemical

Message:

Hanwha CLBA-8450BK is a black linear low density polyethylene(LLDPE) compound produced from resin made by the UNIPOL process. It has broad molecular weight distribution. It provides excellent processability, lower shrinkage, free of die drool, excellent environmental stress crack resistance (ESCR) and good physical properties. It contains 2.5% well-dispersed carbon black to ensure excellent weathering resistance. It can be used for jacketing of power and communication cables.

General Information			
Additive	Carbon black		
Features	Low density		
	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Wide molecular weight distribution		
	Good weather resistance		
	Low shrinkage		
	Excellent appearance		
Uses	Communication Cable Jacketing		
	Cable sheath		
	Cable sheath		
	Wire and cable applications		
Agency Ratings	ANSI C 8.35		
	ASTM D 1248, I, Class C, Cat. 4, Grade E4		
	ASTM D 1248, I, Class C, Cat. 4, Grade E5		
	ASTM D 1248, I, Class C, Cat. 4, Grade J3		
	ASTM D 1248, I, Class C, Cat. 4, Grade W2		
	ASTM D 1248, I, Class C, Cat. 4, Grade W3		
	ASTM D 1248, I, Class C, Cat. 4, Grade W4		
	BS 6234 Type H03C, TS2		
	ICEA S-61-402		
	ICEA S-84-608		
	IEC 60502 Type ST3		
	IEC 60502 Type ST7		
	IEC 60840 Type ST7		
	IEC 60840 Type ST3		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method

Density	0.934	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 5000	hr	ASTM D1693
Carbon Black Content	2.5	%	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	19.6	MPa	ASTM D638
Tensile Elongation (Break)	800	%	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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