Hanwha
Wire & Cable Compound

CLBA-8450BK

LLDPE Jacketing Compound

MELT INDEX	**0.80**
DENSITY	**0.934**

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.

▣ Special Features

Superior processability
Excellent stress crack resistance(ESCR)
Excellent weathering resistance
Low shrinkage

▣ Processing Conditions

Extrusion(melt) temp. : 200~230℃
Hopper drying : 70℃/3hrs is recommended

▣ Specifications

Hanwha CLBA-8450BK meets the applicable requirements as below :
ASTM D1248 Type I, Class C, Category 4, Grade E4, E5, J3, W2, W3, W4
BS 6234: Type H03C, TS2
IEC 60502, ST3, ST7
IEC 60840, ST3, ST7
ICEA : S-61-402, S-84-608-1988
Telcordia GR-421
ANSI : C8.35

▣ Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.80
Density	g/cc	ASTM D1505	0.934
Carbon Black Content	wt%	ASTM D1603	2.5
Light Absorption Coefficient	Abs/mm	ASTM D3349	> 400
Tensile Strength	kg/cm^2	ASTM D638	200
Elongation	%	ASTM D638	800
After Oven Aging(10 days @100℃)		ASTM D638	
Tensile Strength Retention	%		> 85
Elongation Retention	%		> 85
ESCR(F_0, 50℃, 10% Igepal)	hrs	ASTM D1693	> 5,000
Thermal Stress Crack	hrs	ASTM D2951	> 96
Low Temperature Brittleness	℃	ASTM D746	-76
Hardness(Shore D, 1 sec)	-	ASTM D2240	53
Oxidative Induction Time(200℃, Al)	min	ASTM D3895	> 100
Electrical Properties	**Unit**	**Test Method**	**Value**
Dielectric Constant @ 1 MHz	-	ASTM D150	2.4
Dissipation Factor @ 1 MHz	-	ASTM D150	0.0005

* Values are typical : not to be construed for specification.

http://hcc.hanwha.co.kr

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