

MDPE Jacketing Compound

MELT INDEX 0.23

DENSITY 0.949

Hanwha CMBA-8240BK is a black medium density polyethylene(MDPE) compound designed for power & communication cable jacketing applications. It combines excellent physical properties with good processing. It provides excellent resistance to environmental stress cracking(ESCR) and thermal oxidative degradation. It contains 2.5% well-dispersed carbon black to ensure excellent weathering resistance.

Special Features

- Excellent stress crack resistance(ESCR)
- Good abrasion & scratch resistance
- Excellent weathering resistance
- Good processing characteristics

Processing Conditions

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

Specifications

Hanwha CMBA-8240BK meets the applicable requirements as below :

ASTM D1248 Type II, Class C, Category 5, Grade J4, E8, E9

BS 6234: Type H03C, TS2

ISO 1872-PE, KCHL, 33 D-006

IEC 60502, ST3, ST7

NF C32-060

IEC 60840, ST3, ST7

Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	0.23
Density	g/cc	ASTM D1505	0.949
Carbon Black Content	wt%	ASTM D1603	2.5
Light Absorption Coefficient	Abs/mm	ASTM D3349	> 400
Tensile Strength	kg/cm ²	ASTM D638	300
Elongation	%	ASTM D638	800
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	59
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>