

HANWHA CMBA-8240BK

Medium Density Polyethylene

Hanwha Chemical

Message:

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.

General Information			
Additive	Carbon black		
Features	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Good weather resistance		
	Excellent appearance		
	Medium density		
Uses	Cable sheath		
	Wire and cable applications		
Agency Ratings	ASTM D 1248, II, Class C, Cat. 5		
	BS 6234 Type H03C, TS2		
	IEC 60502 Type ST3		
	IEC 60502 Type ST7		
	IEC 60840 Type ST3		
	NF C 32-060		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.23	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)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	29.4	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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