

HANWHA CHBA-8241BK

High Density Polyethylene

Hanwha Chemical

Message:

Hanwha CHBA-8241BK is a black high density polyethylene(HDPE) compound designed for power & communication cable jacketing applications. It combines excellent physical properties with good processing. It provides excellent environmental stress crack resistance(ESCR). It contains 2.5% well-dispersed carbon black to ensure excellent weathering resistance.

General Information			
Additive	Carbon Black		
Features	Good Abrasion Resistance		
	Good Processability		
	Good Weather Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Scratch Resistance		
Uses	Cable Jacketing		
	Communication Applications		
	Power Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, III, Class C, Cat. 5 Grade E8		
	ASTM D 1248, III, Class C, Cat. 5 Grade E9		
	ASTM D 1248, III, Class C, Cat. 5 Grade J4		
	ASTM D 1248, III, Class C, Cat. 5 W8		
	ASTM D 1248, III, Class C, Cat. 5 W9		
	BS 6234 Type H03C, TS2		
	DIN VDE 0276-620 Type DMP2		
	DIN VDE 0276-620 Type DMP9		
	IEC 60502 Type ST7		
	IEC 60840 Type ST7		
Appearance	Black		
	Pellets		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.955	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)	64		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	
Retention of Tensile Elongation - 10 days (100°C)	> 85	%	ASTM D638
Retention of Tensile Strength - 10 days (100°C)	> 85	%	ASTM D638
Oxidation Induction Time - AI (200°C)	> 100	min	ASTM D3895
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
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 to 230	°C	

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