

HANWHA CLBA-8924BK

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA Wire & Cable Compound CLBA-8924BK is a black colored low density, crosslinkable polyethylene compound with 2.0% carbon black designed for outdoor cable insulation up to 33kV. It has a excellent weather resistivity and good processability.

General Information			
Additive	Carbon black (2%)		
Features	Workability, good		
	Crosslinkable		
	Good electrical performance		
	Good weather resistance		
	Thermal stability, good		
Uses	Wire and cable applications		
	Insulating material		
	Outdoor application		
Agency Ratings	ICEA S-66-524		
	KSC 3327		
	NEMA WC-7		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ASTM D1505
Environmental Stress-Cracking Resistance (10% Igepal)	> 2000	hr	ASTM D1693
Degree of Crosslinking	81	%	ASTM D2765A
Carbon Black Content	2.0	wt%	ASTM D1603
Tensile strength retention rate ¹	> 90	%	ASTM G26
Elongation retention rate ²	> 90	%	ASTM G26
Thermoset	100	%	IEC 60811-2-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	19.6	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (136°C, 168 hr)	< -15	%	ASTM D573

Change in Ultimate Elongation in Air (136°C, 168 hr)	< -15	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.45		ASTM D150
Dissipation Factor (1 MHz)	6.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	115 - 135	°C	
Extrusion instructions			
Cure Temperature : 350~450°C			
NOTE			

1. Method 1, 2000 hr,
Weather-o-meter

2. Method 1, 2000 hr,
Weather-o-meter

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