

HANWHA CLBB-8923BK

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA Wire & Cable Compound CLBB-8923BK is a black colored low density, crosslinkable polyethylene compound with 0.5% carbon black designed for outdoor cable insulation up to 33kV. It has a good processability and scorch stability.

General Information			
Additive	Carbon black (5000 ppm)		
Features	Low density		
	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	0.923	g/cm ³	ASTM D1505
Environmental Stress-Cracking Resistance (10% Igepal)	> 2000	hr	ASTM D1693
Degree of Crosslinking	82	%	ASTM D2765A
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)	2.31		ASTM D150
Dissipation Factor (1 MHz)	4.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	115 - 125	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

