

Borstar® LE8707

Low Density Polyethylene

Borealis AG

Message:

Borstar LE8707 is a black linear low density (LLD) jacketing compound, which is produced with the Borealis proprietary Borstar bimodal process technology.

Borstar technology allows the manufacturing of polymers outside the traditional MFR and density range making it possible to optimize processability, reduce shrinkage and yet provide excellent physical toughness and environmental stress crack resistance (ESCR).

Borstar LE8707 contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance.

General Information			
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4, Grade E4		
	ASTM D 1248, I, Class A, Cat. 4, Grade E5		
	ASTM D 1248, I, Class A, Cat. 4, Grade J3		
	ASTM D 1248, I, Class A, Cat. 4, Grade W2-4		
	BS 6234 Type 03C, TS2		
	EN 50290-2-24		
	HD 620 S1, Part 1, table 4B, DMP 12		
	HD 620 S1, Part 1, table 4B, DMP 14		
	HD 620 S1, Part 1, table 4B, DMP 17		
	IEC 60502 Type ST3		
	IEC 60502 Type ST7		
	IEC 60708		
	IEC 60840 Type ST3		
	IEC 60840 Type ST7		
	ISO 1872 PE KCHL 18D006		
	NF C 32-060		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.936	g/cm ³	ISO 1183
-- ²	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	5000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shaw D, 1 sec	54		ISO 868
Shaw D, 3 seconds	53		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	30.0	MPa	ISO 527-2/50

Tensile Strain (Break)	800	%	ISO 527-2/50
Flexural Modulus	400	MPa	ASTM D790
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	IEC 60093
Dielectric Strength	60	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.50		IEC 60250
Dissipation Factor (1 MHz)	4.0E-4		IEC 60250
Additional Information	Nominal Value	Unit	Test Method
Pressure Test - at High Temperature ³ (115°C)		%	IEC 60811-3-1
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Die Temperature	210	°C	
Extrusion instructions			
Preheating: 90°C Feed Section: 170°C Metering Section: 200°C			
NOTE			
1.	Compound		
2.	Base Resin		
3.	6 hours		

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