

Borealis Borstar® LE8707 Black Bimodal LLDPE Jacketing Compound for Energy and Communication Cables

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

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.

Applications: Borstar® LE8707 is designed for jacket for energy and communication cables. The abrasion resistance combined with low coefficient of friction makes it ideally suitable for the jacketing of energy and communication cables. Borstar® LE8707 offers a balance of properties giving advantages in manufacturing, installation and lifetime performance of communication and energy cables. Borstar® LE8707 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: ASTM D 1248 Type I, Class C, Category 4, Grade E4, E5, J3, W2-4; BS 6234: Type 03C, TS2; EN 50290-2-24; HD 620 S1, Part 1, table 4B, DMP 12, 14, 17; IEC 60502, Type ST3; IEC 60502, Type ST7; IEC 60708; IEC 60840, Type ST3; IEC 60840, Type ST7; ISO 1872-PE, KCHL, 18-D006; and NF C32-060. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-LE8707-Black-Bimodal-LLDPE-Jacketing-Compound-for-Energy-and-Communication-Cables.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	base resin; ISO 1872-2/ISO 1183
	0.936 g/cc	0.0338 lb/in ³	compound; ISO 1872-2/ISO 1183
Environmental Stress Crack Resistance	>= 5.0 hour	>= 5.0 hour	Igepal 10%, F0; IEC 60811-4-1/B
	@Temperature 50.0 °C	@Temperature 122 °F	
Melt Flow	0.85 g/10 min	0.85 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	3s; DIN 53505
	54	54	1s; ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	50mm/min; ISO 527
Elongation at Break	800 %	800 %	50mm/min; ISO 527
Flexural Modulus	0.400 GPa	58.0 ksi	ISO 178

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	DC; IEC 60093
Dielectric Strength	<= 20.0 kV/mm	<= 508 kV/in	IEC 60243

Processing Properties	Metric	English	Comments
Processing Temperature	90.0 °C	194 °F	preheating temperature
	90.0 °C	194 °F	drying temperature
	150 °C	302 °F	feed section
Middle Barrel Temperature	170 °C	338 °F	metering section
Head Temperature	190 °C	374 °F	die head

Descriptive Properties	Value	Comments
High Temperature Pressure Test, %	< 15%	115°C; 6 hours; IEC 60811-3-1

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