Borealis Borstar® LE8706 Natural Bimodal LLDPE Jacketing Compound for Energy and Communication Cables

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

Material Notes:

Borstar® LE8706 is a natural colorable 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® LE8706 contains a well dispersed UV-stabilizer in sufficient amount providing a measure of weathering resistance. Applications: 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® LE8706 offers a balance of properties giving advantages in manufacturing, installation and lifetime performance of communication and energy cables. Specifications: Borstar® LE8706 meets the applicable requirements when processed using sound extrusion practice and testing procedure: ASTM D 1248 Type I, Class A, Category 4, Grade E4, E5, J3; BS 6234: Type 03, TS2; EN 50290-2-24; IEC 60502, Type ST7; IEC 60840, Type ST7; HD 603 S1, Part 1, table 4B, DMP 6; HD 620 S1, Part 1, table 4B, DMP 5, 16Information provided by Borealis AG

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-Borstar-LE8706-Natural-Bimodal-LLDPE-Jacketing-Compound-for-Energy-and-Communication-Cables.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in³	base resin; ISO 1872-2/ISO 1183
Environmental Stress Crack Resistance	>= 5.0 hour @Temperature 50.0 °C	>= 5.0 hour @Temperature 122 °F	Igepal 10%, F0; IEC 60811-4-1/B
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	3s; ISO 868
	52	52	1s; ISO 868
Tensile Strength at Break	28.0 MPa	4060 psi	50mm/min; ISO 527
Elongation at Break	800 %	800 %	50mm/min; ISO 527
Flexural Modulus	0.400 GPa	58.0 ksi	ASTM D790

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 Constant	2.3 @Frequency 1.00e+6 Hz	2.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	<= 20.0 kV/mm	<= 508 kV/in	IEC 60243
Dissipation Factor	0.00015 @Frequency 1.00e+6 Hz	0.00015 @Frequency 1.00e+6 Hz	IEC 60250

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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