

Borealis LE6025 Polyethylene Modified Jacketing Compound

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Wire/Cable Grade

Material Notes:

LE6025 is a black low density copolymer modified polyethylene compound. It is characterized by excellent stress crack resistance and mechanical properties and low temperature performance in combination with good extrudability. LE6025 contains 2,5% well dispersed furnace black of nominal particle size less than 25 nanometers in order to ensure excellent weathering resistance. Applications: Jacket for energy and communication cables. Specifications: ASTM D1248 Type I, Class C, Category 5, Grade E5, J3, W2-4; EN 50290-2-24; HD 620 S1, DMP 10, 12, 14, 17; HD 603 S1, DMP 7, 8; ISO 1872-PE, KCHL, 18-D003; and IEC 60502, Part 2, Type ST3. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE6025-Polyethylene-Modified-Jacketing-Compound.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	base resin; ISO 1183
	0.933 g/cc	0.0337 lb/in ³	compound; ISO 1183
Environmental Stress Crack Resistance	>= 2500 hour @Temperature 50.0 °C	>= 2500 hour @Temperature 122 °F	Igepal 100%; F20; IEC 60811-4-1/B
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	1s; ISO 868
Tensile Strength at Break	>= 25.0 MPa	>= 3630 psi	50mm/min; ISO 527
Elongation at Break	>= 900 %	>= 900 %	50m/min; ISO 527
Flexural Modulus	0.300 GPa	43.5 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

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