

## Borealis LE6022 Polyethylene Modified Jacketing Compound

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

### Material Notes:

LE6022 is a black low density copolymer modified polyethylene compound. It is characterized by excellent crack resistance and mechanical properties and low temperature performance in combination with good extrudability. LE6022 contains 2,5% well dispersed furnace black of nominal particle size less than 25 nanometers in order to ensure excellent weathering resistance. Applications: LE6022 is designed for jacketing of communication cables. Specifications: ASTM D1248 Type I, Class C, Category 5, Grade E5, J3, W2-4; BS 6234: Type 03C, TS1; DIN VDE 0207 Type 2YM2; EN 50290-2-24; HD 620 S1, Part 1, table 4B, DMP 17; IEC 60708; IEC 60840, Type ST3; 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-LE6022-Polyethylene-Modified-Jacketing-Compound.php](http://www.lookpolymers.com/polymer_Borealis-LE6022-Polyethylene-Modified-Jacketing-Compound.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	base resin; ISO 1183
	0.931 g/cc	0.0336 lb/in <sup>3</sup>	compound; ISO 1183
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Igepal 100%; F20; IEC 60811-4-1/B
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 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	>= 15.0 MPa	>= 2180 psi	50mm/min; ISO 527
Elongation at Break	>= 600 %	>= 600 %	50mm/min; ISO 527
Flexural Modulus	0.250 GPa	36.3 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 Constant	2.5 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @Frequency 1.00e+6 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 - 100 °C	176 - 212 °F	conductor preheating temperature
Melt Temperature	200 - 210 °C	392 - 410 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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