

Borealis LE6023 Polyethylene Modified Jacketing Compound

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

Material Notes:

LE6023 is a black flexible 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. LE6023 contains 2.5% well dispersed furnace black of nominal particle size less than 25 nanometers in order to ensure excellent weathering resistance. Applications: LE6023 is designed for jacketing of energy and communication cables. Specifications: ASTM D1248 Type I, Class C, Category 4; IEC 60502, Type ST3; IEC 60708; IEC 60840, Type ST3; and ISO 1872-PE, KCHL, 23-D003. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE6023-Polyethylene-Modified-Jacketing-Compound.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	base resin; ISO 1183
	0.934 g/cc	0.0337 lb/in ³	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	0.35 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	45	45	1s; ISO 868
Tensile Strength at Break	>= 14.0 MPa	>= 2030 psi	50mm/min; ISO 527
Elongation at Break	>= 600 %	>= 600 %	50m/min; ISO 527
Flexural Modulus	0.125 GPa	18.1 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	2.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China