

Borealis LE6006 Polyethylene

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

Material Notes:

It is a low loss LDPE compound for coaxial cables. LE6006 contains a special type of antioxidant, which does not adversely affect the electrical properties. Applications: bamboo constructed cables, coaxial cables, inner skin of radio frequency cables, and telephone wires.

Specifications: ISO 1872-PE, KGHN, 18-D003; ASTM D1248 Type I, Class A, Category 5, Grade E4, E5; EN 50290-2-23; DIN VDE 0207, 2YI3; IEC 61196; and EN 50117. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE6006-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	>= 96 hour @Temperature 50.0 °C	>= 96 hour @Temperature 122 °F	Igepal 100%; F20; IEC 60811-4-1/B
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 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

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	2.29 @Frequency 1.00e+6 Hz	2.29 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	>= 22.0 kV/mm	>= 559 kV/in	IEC 60243
Dissipation Factor	0.000080 @Frequency 1.00e+6 Hz	0.000080 @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 - 230 °C	392 - 446 °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