Borealis LE6006

Low Density Polyethylene

Borealis AG

Message:

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. LE6006 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:
ASTM D 1248 Type I, Class A, Category 5, Grade E4, E5
BS 6234: Type 03
DIN VDE 0207, 2YI3
ISO 1872-PE, KHN, 18-D003

General Information			
Additive	Antioxidation		
Features	Antioxidation Fast molding cycle Good electrical performance Excellent appearance		
Uses	Communication Cable Jacketing Telephone insulator Coaxial cable sheath material		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 5, Grade E4 , E5 BS 6234 Type 03 DIN VDE 0207, 02YI3		
Forms	Particles		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.918	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F20)	> 96.0	hr	IEC 60811-4-1/B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec)	50		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	15.0	MPa	ISO 527-2/50
Tensile Strain (Break)	600	%	ISO 527-2/500
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.29		IEC 60250
Dissipation Factor (1 MHz)	8.0E-5		IEC 60250

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 210	°C
Melt Temperature	180 - 220	°C
Die Temperature	200	°C

Extrusion instructions

Conductor Preheating Temperature: 80 to 100°C

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