Borealis LE6025

Low Density Polyethylene

Borealis AG

Message:

Black low density polyethylene jacketing compound for energy and communication cables
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 nanometres in order to ensure excellent weathering resistance.
Applications
Jacket for energy and communication cables
Specifications
LE6025 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:
ISO 1872-PE, KCHL, 18-D003
ASTM D 1248 Type I, Class C, Category 5, Grade E5, J3, W2-4
The following cable material standards are met by LE6025:
EN 50290-2-24
Cables manufactured with LE6025 using sound extrusion practice normally comply with the following cable product standards:
IEC 60502, Part 2, Type ST3
IEC 60840, Type ST3
HD 603 S1, DMP 7, 8
HD 620 S2, Part 1, table 4B, DMP 10, 12, 14, 17

General Information	
Features	Copolymer Good Flexibility Good Surface Finish Good Weather Resistance High ESCR (Stress Crack Resist.) Low Density
Uses	Cable Jacketing
Agency Ratings	ASTM D 1248, I, Class C, Cat. 5 Grade E5, J3, W2-4 HD 620 S1 DMP 7, 8 IEC 60502-2 Type ST3 IEC 60840 Type ST3 ISO 1872 PE KCHL 18D003
Appearance	Black
Forms	Granules
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- [1]	0.933	g/cm³	
Base Resin	0.921	g/cm³	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ISO 1133

Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F20)	> 2500	hr	IEC 60811-4-1/B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 25.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 900	%	ISO 527-2/50
Flexural Modulus	300	MPa	ASTM D790
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
Electric Strength	20	kV/mm	IEC 60243-1
NOTE			
1.	Compound		

Recommended distributors for this material

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