PRODUCT DATA SHEET

05.10.2016 Ed.4

Polyethylene

LE6025

Black Low Density Polyethylene Jacketing Compound for Energy and Communication

Description

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 in order to ensure excellent weathering resistance.

Applications

LE6025 is designed for jacketing of 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

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (Base Resin)	921 kg/m³	ISO 1183-1, Method A
Density (Compound)	933 kg/m³	ISO 1183-1, Method A
Bulk density	500 - 600 kg/m³	
Melt Flow Rate (190 °C/2,16 kg)	0,35 g/10min	ISO 1133-1, Method A
Flexural Modulus	300 MPa	ISO 178
Tensile Strain at Break (50 mm/min)	> 900 %	ISO 527-2
Tensile Strength (50 mm/min)	> 25 MPa	ISO 527-2
Brittleness temperature	< -76 °C	ASTM D 746
Environmental Stress Crack Resistance (50 °C, Igepal 10 %, F20)	> 2.500 h	IEC 60811-406
Hardness, Shore D (1 s)	50	ISO 868

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Electrical Properties

Property	Typical Value Data should not be used for specification work	Test Method
DC Volume Resistivity	10 PΩcm	IEC 60093
Dielectric Strength	20 kV/mm	IEC 60243

Processing Techniques

LE6025 provides excellent surface finish and allows a broad processing window.

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known.

Packaging

Package: Bags
Octabins
Bulk

Safety

The product is not classified as dangerous. Check and follow local codes and regulations!

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the products. For more information, contact your Borealis representative.

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The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

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