

PRODUCT DATA SHEET

05.10.2016 Ed.7

 Polyethylene
ME6032**Description****ME6032 -**

It is a MDPE compound for solid insulation of telephone singles and data cables at high line speed. It contains a metal deactivator.

Applications

ME6032 is intended for:

Dry core and petroleum jelly filled cables

Specifications

ME6032 meets the following material classification:

ISO 1872-PE, KGHN, 27-D003

ASTM D 1248 Type II, Class A, Category 5, Grade E4, E5

The following cable material standards are met by ME6032:

EN 50290-2-23

DIN VDE 0207, 2Y11

DIN VDE 0207, 2Y13

Cables manufactured with ME6032 using sound extrusion practice normally comply with the following cable product standards:

IEC 60708

IEC 61156

EN 50288

EN 50407

Special Features

ME6032 consists of specially selected components to offer:

High extrusion speed up to 2400 m/min

Good copper adhesion

Excellent surface finish

High output

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Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	928 kg/m ³	ISO 1183-1, Method A
Melt Flow Rate (190 °C/2,16 kg)	0,3 g/10min	ISO 1133-1, Method A
Tensile Strain at Break (50 mm/min)	600 %	ISO 527-2
Tensile Strength (50 mm/min)	17 MPa	ISO 527-2
Oxidation Induction Time (200 °C)	50 min	ISO 11357-6
Resistance to thermal ageing (105 °C)	> 1.000 h	IEC 60811-408
Brittleness temperature	< -76 °C	ASTM D 746
Environmental Stress Crack Resistance (50 °C, Igepal 100 %, F20)	> 250 h	IEC 60811-406
Hardness, Shore D (1 s)	53	ISO 868

For information on the influence of petroleum jelly please refer to the article published on borealisgroup.com : "Impact of Petroleum Jelly on the Ageing of Telephone Wire", by going to the following link
http://www.borealisgroup.com/pdf/literature/borealis/technical-article/1112Impact_of_Petroleum_Jelly_on_the_Ageing_of_Telephone_Wire_Final.pdf

Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Dielectric constant (1 MHz)	2,30	IEC 60250
DC Volume Resistivity	10 PΩcm	IEC 60093
Dielectric Strength	22 kV/mm	IEC 60243
Dissipation Factor (1 MHz)	0,00015	IEC 60250

Processing Techniques

The actual conditions will depend on the type of equipment used.

ME6032 can be processed using a wide range of process conditions at very high line speeds (typically up to 2400 m/min).

For normal extrusion equipments and applications, we suggest a melt and conductor preheating temperatures as outlined below.

Tooling

Pressure tooling is invariably required. Typically "on size" die diameters are used.

Extrusion

Barrel	165 - 230 °C
Die head	230 °C
Melt temperature	220 - 240 °C

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Conductor preheating temperature

70 - 100 °C

Please contact your local Borealis representative for specific assistance.

Packaging

Package: Bags
 Bulk
 Octabins

Safety

Check and follow local codes and regulations!

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

Disclaimer

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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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