



Polyethylene HE3366

Description

HE3366

It is a HDPE compound for solid insulation of telephone singles with high extrusion speed. HE3366 is designed as insulation for petroleum filled telephone cables. It is also suitable as outer skin in "foam-skin" constructions.

Specifications

HE3366 meets the applicable requirements below using sound commercial extrusion practice and testing procedures:

ASTM D 1248 Type III, Class A, Category 4, Grade E8, E9
BS 6234: Type H03
DIN VDE 0818
EN 50288

EN 50290-2-23
IEC 60708
ISO 1872-PE, KCHL, 45 D-006
NF C32-060

Special features

HE3366 consists of specially selected components to offer:

Low die head pressure
Very good flow behaviour

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	945 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,7 g/10min	ISO 1133
Tensile Strain at Break	600 %	ISO 527
Tensile Strength	23 MPa	ISO 527
Oxidation Induction Time (200 °C),	50 min	IEC 60811-4-2/B
Brittleness temperature	< -76 °C	ASTM D 746
Petroleum Jelly Absorption	5 %	IEC 60811-4-2
Environmental Stress Crack Resistance (50 °C) (Igepal 10 %), (F20),	> 48 h	IEC 60811-4-1/B
Hardness, Shore D (1 s)	61	ISO 868



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Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Dielectric constant (1 MHz)	2,33	IEC 60250
DC Volume Resistivity	10 POhm.cm	IEC 60093
Dielectric Strength	22 kV/mm	IEC 60243
Dissipation Factor (1 MHz)	0,00006	IEC 60250

Processing Techniques

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

HE3366 provides excellent surface finish and high output rates over a broad range of conditions. For normal extrusion equipments and applications we suggest a melt temperature and a conductor preheating according to table below.

Please contact your local Borealis representative for specific assistance.

Extrusion

Melt temperature	220 - 250 °C	
Conductor preheating temperature	100 - 120 °C	
Cooling water	50 °C	First part of cooling trough

Packaging

Package:	Bags
	Bulk
	Octabins

Safety

Check and follow local codes and regulations!

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, 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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