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### Description HE4872 -

It is a HDPE compound for solid insulation of symmetric data cable at high extrusion speed.

# Applications

HE4872 is intended for:

High frequency data transmission cables Outer skin of foam-skin constructions

## **Specifications**

HE4872 meets the following material classification:

ISO 1872-PE, KGHN, 45-D006 ASTM D 1248 Type III, Class A, Category 4, Grade E8, E9

The following cable material standards are met by HE4872:

EN 50290-2-23<sup>1</sup>

<sup>1</sup> Appropriate parts

Cables manufactured with HE4872 using sound extrusion practice normally comply with the following cable product standards:

IEC 61156 EN 50288

## **Special features**

HE4872 consists of specially selected components to offer:

Good conductor adhesion Very good flow behaviour Low die head pressure Excellent surface finish High output

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## **Physical Properties**

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Property	Typical Value Data should not be used for specific	Test Method ation work
Density Melt Flow Rate (190 °C/2,16 kg) Tensile Strain at Break Tensile Strength Oxidation Induction Time (200 °C), Brittleness temperature Environmental Stress Crack Resistance (50 °C) (Igepal 10 %), (F20) Hardness, Shore D (15 s)	945 kg/m3 0,7 g/10min > 600 % 20 MPa > 60 min < -76 °C > 80 h 58	ISO 1872-2/ISO 1183 ISO 1133 ISO 527 ISO 527 IEC 60811-4-2/B ASTM D 746 IEC 60811-4-1/B
Hardness, Shore D (15 s)	28	150 868

## **Electrical Properties**

Property	Typical Value Test Method Data should not be used for specification work	
Dielectric constant (1000000 Hz)	2,33	IEC 60250
DC Volume Resistivity	10 POhm.cm	IEC 60093
Dissipation Factor (1000000 Hz)	0,00007	IEC 60250

## **Processing Techniques**

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

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

Please contact your local Borealis representative for specific assistance.

#### Extrusion

Typically the following process conditions are used:

Melt temperature	220 - 250 °C	
Conductor preheating temperature	100 - 120 °C	
Cooling water	30 - 50 °C	F

#### First part of cooling trough

### Packaging

Package:

Bags Bulk Octabins

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### 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, 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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