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BorcellTM HE4873

Compound for Cellular insulation of Communication cables

Description Borcell HE4873 -

It is a fully formulated compound for physical foamed data cable insulation. Borcell HE4873 is a high-density polyethylene compound containing blowing agent for the production of foam or foam-skin insulation.

Applications

Borcell HE4873 is designed to use as physically foamed insulation for:

Data cables

Specifications

Borcell HE4873 meets the following material classification:

ISO 1872-PE, KEGHN, 45-D045 ASTM D1248 Type III, Class A, Category 3, Grade E1, E3

The following cable material standards are met by Borcell HE4873:

EN 50290-2-23 1

¹ Appropriate parts

Cables manufactured with Borcell HE4873 using sound extrusion practice normally comply with the following cable product standards:

IEC 61156 EN 50288

Special features Borcell HE4873 consists of specially selected components to offer:

Optimal cell structure Smooth surface Low plate out Easy extrusion High process control Improved crushability

Borcell is a trademark of Borealis A/S, Denmark.

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Physical Properties

Property	Typical Value	Test Method	
	Data should not be used for specification work		
Density	946 kg/m3	ISO 1872-2/ISO 1183	
Melt Flow Rate (140 °C/5 kg)	3,8 g/10min	ISO 1133	
Tensile Strain at Break	600 %	ISO 527	
Tensile Strength	23 MPa	ISO 527	
Brittleness temperature	-76 °C	ASTM D 746	
Hardness, Shore D (1 s)	61	ISO 868	

Processing Techniques

Borcell HE4873 can be processed over a wide range of conditions.

The construction, extruder size and setup of gas injection system are important in selecting proper processing conditions.

Extrusion

Typically the following process conditions are used:

Barrel 1	160 °C	Symmetric pair cables		
Barrel 2	170 °C	Symmetric pair cables		
Barrel 3	215 °C	Symmetric pair cables		
Barrel 4	205 °C	Symmetric pair cables		
Barrel 5	210 °C	Symmetric pair cables		
Die	220 °C	Symmetric pair cables		
Head	220 °C	Symmetric pair cables		
Please contact your local Borealis representative for specific assistance.				

Packaging

Package:

Bags Bulk Octabins

Storage

Borcell HE4873 should be stored in dry conditions at temperatures below 50°C and protected from UV-light.

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Polyethylene Borcell HE4873

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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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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