



扫一扫上面的二维码图案，加我为朋友。

# Polyethylene Borcell™ 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 applicable requirements as below when processed using sound extrusion practice and testing procedure:

ASTM D 1248 Type III, Category 3  
EN 50288

EN 50290-2-23  
ISO 1872-PE, KEGHN, 45-D045

## 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

## Physical Properties

| Property                                       | Typical Value         | Test Method         |
|--|-----------------------|---------------------|
| Data should not be used for specification work |                       |                     |
| Density  | 948 kg/m <sup>3</sup> | ISO 1872-2/ISO 1183 |
| Melt Flow Rate (140 °C/5 kg)                   | 5 g/10min             | ISO 1133            |
| Tensile Strain at Break                        | 200 %                 | ISO 527             |
| Tensile Strength                               | 25 MPa                | ISO 527             |
| Brittleness temperature                        | 61 °C                 | ASTM D 746          |
| Hardness, Shore D ( 1 s)                       | 61                    | ISO 868             |

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168



扫一扫上面的二维码图案，加我为朋友。

# Polyethylene Borcell HE4873

## 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.

## Safety

The product is not classified as a dangerous preparation. 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.

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168



扫一扫上面的二维码图案，加我为朋友。

# Polyethylene Borcell HE4873

## 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.

**Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**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.**

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168