Polyethylene
BorSafe™ ME3440

Black medium density Polyethylene compound for pressure pipes

Description

BorSafe ME3440 is a bimodal polyethylene compound produced by the advanced Borstar technology.

BorSafe ME3440 is classified as an MRS 8.0 material (PE80).

Applications

BorSafe ME3440 is recommended for pressure pipe systems in the applications field of:

Drinking water	Industrial
Natural gas	Relining
Pressure sewerage	Sea outfall

Particularly where flexibility and coilability is of importance. It also shows excellent resistance to rapid crack propagation and slow crack growth. Thanks to the structure, it gives outstanding extrudability, compared to conventional PE80.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (Compound)	951 kg/m³	ISO 1183
Melt Flow Rate (190 °C/5,0 kg)	0,85 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	800 MPa	ISO 527-2
Tensile Strain at Break	> 500 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	19 MPa	ISO 527-2
Oxidation Induction Time (200 °C),	> 20 min	EN 728
Resistance to rapid crack propagation (S4 test, Pc at 0 °C, Test pipe 250 mm, SDR11)	> 6 bar	ISO 13477
Resistance to slow crack growth (8,0 bar, 80 °C)	2.000 h	ISO 13479

Processing Techniques

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

Extrusion

Cylinder	180 - 210 °C
Head	200 - 210 °C
Die	200 - 210 °C
Melt temperature	200 - 220 °C

For normal conditions and applications we suggest preheating and drying. 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 such particulars.

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Storage
BorSafe ME3440 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety
The product is not classified as dangerous.

Recycling
The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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.

Related Documents
The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the products.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"
Statement on compliance to regulations for drinking water pipes
Statement on compliance to food contact regulations

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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 any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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