



Polyethylene
BorSafe™ HE3492-LS-H
Orange High Density Polyethylene compound for pressure pipes

Description

BorSafe HE3492-LS-H is a bimodal polyethylene compound produced by the advanced Borstar technology.

Long term stability is ensured by an optimised stabilisation system. It also shows excellent resistance to rapid crack propagation and slow crack growth.

BorSafe HE3492-LS-H is classified as an MRS 10.0 material (PE100).

Applications

BorSafe HE3492-LS-H is recommended for pressure pipe systems in the applications field of:

Gas distribution

It is especially designed for the production of larger diameter, thick wall pipe, but can be processed for the whole range of diameters.

Special features

BorSafe HE3492-LS-H is a high density hexene copolymer compound with an outstanding resistance to slow crack growth.

Physical Properties

Property	Typical Value	Test Method
Density (Compound)	951 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/5,0 kg)	0,27 g/10min	ISO 1133
Tensile Strain at Break	> 600 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Oxidation Induction Time (210 °C),	> 20 min	EN 728
Resistance to rapid crack propagation (S4 test, Pc at 0 °C, Test pipe 250 mm, SDR11)	> 10 bar	ISO 13477
Resistance to slow crack growth (9,2 bar, 80 °C)	> 1.000 h	ISO 13479

Processing Techniques

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

Following parameters should be used as guidelines:

Cylinder	190 - 210 °C
Head	200 - 210 °C
Die	200 - 210 °C
Melt temperature	200 - 220 °C

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 HE3492-LS-H should be stored in dry conditions at temperatures below 60°C and protected from UV-light. Improper storage can initiate degradation.

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.

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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