



# Polyethylene BorSafe™ HE3494-LS-H

## Description

**BorSafe HE3494-LS-H** is a bimodal polyethylene compound produced by the advanced Borstar technology.

It includes a combination of pigments and stabilisers to ensure excellent long-term thermal stability and UV-resistance.

BorSafe HE3494-LS-H is classified as an MRS 10.0 material (PE100).

## Applications

**BorSafe HE3494-LS-H** is recommended for:

Drinking water

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 HE3494-LS-H** is a high density hexene copolymer compound with an outstanding resistance to slow crack growth.

## Physical Properties

| Property  | Typical Value                                  | Test Method         |
|---|--|---------------------|
|   | Data should not be used for specification work |                     |
| Density (Base Resin)  | 948 kg/m <sup>3</sup>                          | ISO 1872-2/ISO 1183 |
| Density (Compound)  | 951 kg/m <sup>3</sup>                          | ISO 1872-2/ISO 1183 |
| Melt Flow Rate (190 °C/5,0 kg)  | 0,25 g/10min                                   | ISO 1133            |
| Tensile Modulus (1 mm/min)  | 1.000 MPa                                      | ISO 527-2           |
| Tensile Strain at Break   | > 600 %  | ISO 527-2           |
| Tensile Stress at Yield (50 mm/min)   | 24 MPa   | ISO 527-2           |
| Oxidation Induction Time (200 °C),  | > 20 min                                       | EN 728              |
| Resistance to rapid crack propagation (S4 test, Pc at 0 °C,<br>Test pipe 250 mm, SDR11) | 10 bar   | ISO 13477           |
| Resistance to slow crack growth (9,2 bar, 80 °C)  | > 5.000 h                                      | ISO 13479           |

## Processing Techniques

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

### Extrusion

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

BorSafe is a trademark of Borealis group.

[www.borealisgroup.com](http://www.borealisgroup.com)



# Polyethylene

# BorSafe HE3494-LS-H

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.

## Storage

**BorSafe HE3494-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.

**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.