

BorSafe™ HE3494-LS-H

High Density Polyethylene

Borealis AG

Message:

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).

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

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

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General Information	
Additive	Unspecified stabilizer UV stabilizer
Features	hexene comonomer Good UV resistance Good cracking resistance Thermal stability, good Bimodal molecular weight distribution
Uses	Piping system
Agency Ratings	PPI PE-100
Appearance	Blue
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.948	g/cm ³	ISO 1183
-- ²	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1000	MPa	ISO 527-2/1
Tensile Stress (Yield)	24.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 600	%	ISO 527-2
Resistance to Slow Crack Growth ³ (80°C)	> 5000	hr	ISO 13479
resistant to rapid crack propagation, Pc-S4 test ⁴ (0°C)	10.0	bar	ISO 13477
Oxidation Induction Time ⁵ (200°C)	> 20	min	
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	190 - 210	°C
Cylinder Zone 2 Temp.	190 - 210	°C
Cylinder Zone 3 Temp.	190 - 210	°C
Cylinder Zone 4 Temp.	190 - 210	°C
Cylinder Zone 5 Temp.	190 - 210	°C
Melt Temperature	200 - 220	°C
Die Temperature	200 - 210	°C

Extrusion instructions

Head: 200 to 210°C

NOTE

- | | |
|----|-------------------------|
| 1. | Base Resin |
| 2. | Compound |
| 3. | 9.2 bar |
| 4. | Test pipe 250 mm, SDR11 |
| 5. | EN 728 |

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