

BorSafe™ HE3490-LS-H

High Density Polyethylene

Borealis AG

Message:

BorSafe HE3490-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 HE3490-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 HE3490-LS-H is a high density hexene copolymer compound with an outstanding resistance to slow crack growth.

| General Information | |
|---------------------|---|
| Additive | Carbon black (2%) Unspecified stabilizer UV stabilizer |
| Features | hexene comonomer Good UV resistance Good cracking resistance Thermal stability, good |
| Uses | Industrial application Piping system |
| Agency Ratings | PPI PE-100 |
| Appearance | Black |
| Forms | Particle |
| Processing Method | Pipeline extrusion molding Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | | | ISO 1183 |
| -- ¹ | 0.959 | g/cm ³ | ISO 1183 |
| -- ² | 0.948 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 0.25 | g/10 min | ISO 1133 |
| Carbon Black Content | 2.0 - 2.5 | % | ISO 6964 |
| 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 (210°C) | > 20 | min | |

| Mechanical | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|--------------|
| Tensile Modulus | 1100 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield) | 25.0 | MPa | ISO 527-2/50 |

| | | | |
|------------------------|---------------|------|-----------|
| Tensile Strain (Break) | > 600 | % | ISO 527-2 |
| 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. | Compound, ISO 1872-2 |
| 2. | Base resin, ISO 1872-2 |
| 3. | 9.2 bar |
| 4. | Test pipe 250 mm, SDR11 |
| 5. | EN 728 |

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