

Polyethylene **BorSafe™ HE3490-IM**

Black high density Polyethylene compound for injection-moulded pressure fittings

Description

BorSafe HE3490-IM is a bimodal polyethylene compound produced by the advanced Borstar technology.

Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimised stabilisation system.

BorSafe HE3490-IM is classified as an MRS 10.0 material (PE100).

Applications

BorSafe HE3490-IM is especially designed for the injection moulding of fittings in the application field of

Drinking water
Natural gas
Pressure sewerage

Industrial
Relining
Sea outfall

Special features

BorSafe HE3490-IM is a high density hexene copolymer compound with an optimal balance between mouldability and strength.

Fittings are easily welded to HDPE and MDPE using conventional methods such as butt-welding, electrofusion or socket-welding.

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Compound)	959 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/5,0 kg)	0,55 g/10min	ISO 1133
Tensile Modulus	1.100 MPa	ISO 527-2
Tensile Strain at Break	> 600 %	ISO 527-2
Tensile Stress at Yield	24 MPa	ISO 527-2
Carbon black content	2 %	ASTM D 1603
Carbon black dispersion	<3	ISO 18553
Oxidation Induction Time (200 °C),	> 20 min	EN 728
Resistance to slow crack growth (9,2 bar, 80 °C)	1.000 h	ISO 13479

Processing Techniques

Following parameters should be used as guidelines:

Extrusion

Melt temperature 190 - 260 °C

BorSafe is a trademark of Borealis A/S, Denmark.

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BorSafe HE3490-IM**Disclaimer**

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