

BorSafe™ HE3490-IM

High Density Polyethylene

Borealis AG

Message:

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).

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.

General Information			
Additive	Carbon Black (2%) Unspecified Stabilizer UV Stabilizer		
Features	Good Moldability Good Stability Good Strength Good UV Resistance Hexene Comonomer		
Uses	Fittings Piping Plumbing Parts		
Agency Ratings	PPI PE-100		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.55	g/10 min	ISO 1133
Carbon Black Content	2.0	%	ASTM D1603
Carbon Black Dispersion	< 3		ISO 18553
Resistance to Slow Crack Growth ² (80°C)	1000	hr	ISO 13479
Oxidation Induction Time ³ (200°C)	> 20	min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2

Tensile Strain (Break)	> 600	%	ISO 527-2
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 260	°C	
NOTE			
1.	Compound, ISO 1872-2		
2.	9.2 bar		
3.	EN 728		

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