

BorSafe™ HE3490-DS-H

Polyethylene

Borealis AG

Message:

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

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

General Information			
Additive	Carbon black (2 to 3%)		
Features	Recyclable materials		
	Good cracking resistance		
	Bimodal molecular weight distribution		
Uses	Industrial application		
	Piping system		
Appearance	Black		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.960	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ² (80°C, 2% Arkopal)	> 8760	hr	ISO 16770
Carbon Black Dispersion			ISO 18553
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, 250 mm)	> 10.0	bar	ISO 13477
Oxidation Induction Time (210°C)	> 20	min	ISO 11357-6
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	1100	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 500	%	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 Temperature: 200 to 210°C

NOTE

1.	Compound
2.	4 MPa
3.	9.2 bar
4.	SDR11

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Recommended distributors for this material

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