

Borealis BorSafe™ HE3490-LS-H HDPE Compound for Pressure Pipes

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

BorSafe™ HE3490-LS-H is a bimodal polyethylene compound produced by the advanced Borstar® technology. It includes a combination of pigments and stabilizers to ensure excellent long-term thermal stability and UV resistance. BorSafe™ HE3490-LS-H is classified as an MRS 10.0 material (PE100). Applications: BorSafe™ HE3490-LS-H is recommended for drinking water, natural gas, pressure sewerage, relining, sea outfall, and industrial. It is especially designed for the production of larger diameter, thick wall pipe, but can be processed for the whole range of diameters. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorSafe-HE3490-LS-H-HDPE-Compound-for-Pressure-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	base resin; ISO 1872-2/ISO 1183
	0.959 g/cc	0.0346 lb/in ³	compound; ISO 1872-2/ISO 1183
Environmental Stress Crack Resistance	>= 5.0 hour	>= 5.0 hour	ISO 13479
	@Pressure 0.920 MPa, Temperature 80.0 °C	@Pressure 133 psi, Temperature 176 °F	
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	EN 728
	@Temperature 210 °C	@Temperature 410 °F	
Carbon Black Loading	2.0 - 2.5 %	2.0 - 2.5 %	
Melt Flow	0.25 g/10 min	0.25 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-3

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	cylinder
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Head Temperature	200 - 210 °C	392 - 410 °F	

Descriptive Properties	Value	Comments
Resistance To Rapid Crack Propagation (bar)	> 10	S4 test, Pc at 0°C, test pipe 250mm, SDR11, ISO 13477

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