

Borealis Borstar® HE3490-LS Black High Density Polyethylene for Pressure Pipes

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

Material Notes:

Borstar HE3490-LS is a black, bimodal, high density polyethylene classified as an MRS 10.0 material (PE100) produced by the advanced Borstar technology. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system. Borstar HE3490-LS is recommended for pressure pipe systems in the applications field of drinking water and 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. It also shows excellent resistance to rapid crack propagation and slow crack growth. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-HE3490-LS-Black-High-Density-Polyethylene-for-Pressure-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	Base Resin; ISO 1183/ISO 1872-2B
	0.960 g/cc	0.0347 lb/in ³	Compound; ISO 1183/ISO 1872-2B
ESCR 10% Igepal®	>= 10000 hour	>= 10000 hour	ASTM D1693-A
Carbon Black Loading	2.0 %	2.0 %	ASTM D1603
Melt Flow	>= 0.10 g/10 min @Load 2.16 kg, Temperature 190 °C	>= 0.10 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	0.25 g/10 min @Load 5.00 kg, Temperature 190 °C	0.25 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength, Yield	24.99 MPa	3625 psi	At 50 mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Head Temperature	200 - 210 °C	392 - 410 °F	

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