

Borealis Borstar® HE3494-LS Dark Blue High Density Polyethylene for Drinking Water Pipes

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

Material Notes:

Borstar HE3494-LS is a yellow-orange, cadmium free, high density polyethylene compound classified as a MRS 10.0 material (PE100) produced with the advanced Borstar technology. It includes a combination of pigments and stabilizers to ensure long-term, UV-resistance, and resistance to gas condensate. It also shows excellent resistance to rapid crack propagation and slow crack growth. Borstar HE3494-LS is recommended for pressure pipe systems in the applications field of drinking water and natural gas, and gives good processing properties and low sagging in thick-walled pipes. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-HE3494-LS-Dark-Blue-High-Density-Polyethylene-for-Drinking-Water-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	Compound; ISO 1183
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 80.0 °C	>= 1000 hour @Temperature 176 °F	At 9.2 bar; ISO 13479
Melt Flow	0.30 g/10 min @Load 5.00 kg, Temperature 190 °C	0.30 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.99 MPa	3625 psi	At 50 mm/min; ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	At 1 mm/min; ISO 527-2

Processing Properties	Metric	English	Comments
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	
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	ISO 13477, Pc at 0°C, S4 / pipe size 250 mm SDR 11

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