

Borealis BorSafe™ HE3490-IM HDPE Compound for Injection Molded Pressure Fittings

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

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 optimized stabilization system. BorSafe™ HE3490-IM is classified as an MRS 10.0 material (PE100). Applications: BorSafe™ HE3490-IM is especially designed for the injection molding of fittings in the application field of drinking water, natural gas, pressure sewerage, industrial, relining, and sea outfall. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorSafe-HE3490-IM-HDPE-Compound-for-Injection-Molded-Pressure-Fittings.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ISO 1872-2/ISO 1183
Environmental Stress Crack Resistance	1.0 hour @Pressure 0.920 MPa, Temperature 80.0 °C	1.0 hour @Pressure 133 psi, Temperature 176 °F	ISO 13479
Oxidative Induction Time (OIT)	>= 20 min @Temperature 200 °C	>= 20 min @Temperature 392 °F	EN 728
Carbon Black Loading	2.0 %	2.0 %	ASTM D1603
Melt Flow	0.55 g/10 min @Load 5.00 kg, Temperature 190 °C	0.55 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527-2
Elongation at Break	>= 600 %	>= 600 %	ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	ISO 527-3

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 260 °C	374 - 500 °F	

Descriptive Properties	Value	Comments
Carbon Black Dispersion	< 3	ISO 18553

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