

Borealis Borstar® HE3410 HDPE for Sewage Pipes

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

Material Notes:

Borstar® HE3410 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. Borstar® HE3410 is classified as an MRS 8.0 material (PE80). Applications: Borstar® HE3410 is recommended for pressure and non pressure pipe systems in the application fields of sewerage waste water piping systems, landfill drainage pipes, sheets, casings and ducting pipes as well as guard tubes. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-HE3410-HDPE-for-Sewage-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ISO 1183
Oxidative Induction Time (OIT)	>= 15 min @Temperature 210 °C	>= 15 min @Temperature 410 °F	EN 728
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
Hardness, Shore D	60	60	ISO 868
Charpy Impact, Notched	1.40 J/cm ² @Temperature 0.000 °C	6.66 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ISO 75-2
Vicat Softening Point	72.0 °C @Load 5.10 kg	162 °F @Load 11.2 lb	B50; ISO 306
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 - 210 °C	356 - 410 °F	cylinder
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 210 °C	392 - 410 °F	

Processing Properties

Metric **10 °C**

English **10 °F**

Comments

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