

Borealis BorPEX™ HE2515 High Density Polyethylene Compound for Silane Crosslinked Pipes

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

Material Notes:

BorPEX HE2515 is a silane crosslinkable compound which is used together with a catalyst masterbatch (Cat-MB) to accelerate the moisture-induced crosslinking reaction. It is designed for flexible crosslinkable pipes. BorPEX HE 2515 is designed for the requirements in DIN 16892/BIN 16887 for hot water pressure pipes, e.g. floor heating, radiator connections and for domestic hot and cold water supply. Documentation is available on request. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorPEX-HE2515-High-Density-Polyethylene-Compound-for-Silane-Crosslinked-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ISO 1183
Melt Flow	1.0 g/10 min @Load 5.00 kg, Temperature 190 °C	1.0 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	At 50 mm/min; ISO/DIS 6259
Tensile Strength, Yield	27.00 MPa	3916 psi	At 50 mm/min; ISO/DIS 6259
Elongation at Break	195 %	195 %	ISO/DIS 6259
Elongation at Yield	11 %	11 %	ISO/DIS 6259
Modulus of Elasticity	0.960 GPa	139 ksi	ISO 527

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 μm/m-°C @Temperature -20.0 °C	50.0 μin/in-°F @Temperature -4.00 °F	ASTM D696
	140 μm/m-°C @Temperature 20.0 °C	77.8 μin/in-°F @Temperature 68.0 °F	ASTM D696
	500 μm/m-°C @Temperature 100 °C	278 μin/in-°F @Temperature 212 °F	ASTM D696
Specific Heat Capacity	2.10 J/g-°C	0.502 BTU/lb-°F	
Vicat Softening Point	126 °C	259 °F	ISO 306

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