Borealis BorPEX™ ME2510 Medium Density Polyethylene Compound for Crosslinked Pipes (Pex-B (Silane))

Categories: Polymer; Thermoplastic; Polyethylene (PE); MDPE; Medium Density Polyethylene (MDPE), Molded

Material Notes: BorPEX ME2510 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 crosslinkable pipes with superior flexibility.

BorPEX ME2510 is designed for the requirements in DIN 16 892/DIN 16 887 and prEN ISO 15 875 for hot and cold water pressure pipes, e.g. floor heating, radiator connections and for domestic hot and cold water supply.

Information provided by the Manufacturer.

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in³	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	15.0 MPa	2180 psi	At 50 mm/min; ISO/DIS 6259
Tensile Strength, Yield	20.0000 MPa	2900.75 psi	At 50 mm/min; ISO/DIS 6259
Elongation at Break	180 %	180 %	ISO/DIS 6259
Elongation at Yield	13 %	13 %	ISO/DIS 6259
Modulus of Elasticity	0.630 GPa	91.4 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	
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft²-°F	DIN 52612
Vicat Softening Point	122 °C	252 °F	ISO 306

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