

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/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	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-ft ² -°F	DIN 52612
Vicat Softening Point	122 °C	252 °F	ISO 306

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.