

BNZ Materials Transite 1000 Low Temperature Industrial Board

Category : Ceramic , Oxide

Material Notes:

These non-asbestos, monolithic fiber cement industrial boards are used in environments up to 1000°F where high strength is the primary concern. These fiber cement boards are used in the foundry industry for flask liners, core, drying and carry plates, and induction furnace casings. Electrical applications include busbar supports, aluminum pot insulation, and electrode arm insulators. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Transite-1000-Low-Temperature-Industrial-Board.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0207 GPa	3.00 ksi	
Compressive Strength	92.05 MPa	13350 psi	ultimate load

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.340 W/m-K @Temperature 121 °C	2.36 BTU-in/hr-ft ² -°F @Temperature 250 °F	
Shrinkage	0.14 % @Temperature 316 °C, Time 86400 sec	0.14 % @Temperature 600 °F, Time 24.0 hour	Length/width, Soaking Heat Changes
	0.41 % @Temperature 316 °C, Time 86400 sec	0.41 % @Temperature 600 °F, Time 24.0 hour	Thickness, Soaking Heat Changes

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.25e+13 ohm-cm	1.25e+13 ohm-cm	ASTM D257
Dielectric Strength	2.20 kV/mm	56.0 kV/in	ASTM D495
Arc Resistance	272 sec	272 sec	ASTM D495

Processing Properties	Metric	English	Comments
Moisture Content	7.0 %	7.0 %	

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