

Pyrotek NAD-1000 High Temperature Engineering Board

Category : Ceramic

Material Notes:

NAD-1000 is a high density calcium silicate board reinforced with selected fibers to produce excellent thermal characteristics and dimensional stability up to 1000°C. NAD-1000 retains high strength after thermal cycling and has good impact resistance. Applications Platen press insulation Element supports Oven cladding and shelving Furnace plates Induction furnace top plates Foundry core plates Glass handling components Advantages Dimensional stability Mechanical strength at temperature Noncombustible Good machining characteristics Chemically inert Asbestos-free Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-NAD-1000-High-Temperature-Engineering-Board.php

Physical Properties	Metric	English	Comments
Density	1.362 g/cc	0.04921 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0204 GPa	2.96 ksi	after 24 hours at ambient temperature
	0.0145 GPa	2.10 ksi	
	@Temperature 489 °C, Time 86400 sec	@Temperature 912 °F, Time 24.0 hour	
Compressive Strength	0.0165 GPa	2.39 ksi	
	@Temperature 315 °C, Time 86400 sec	@Temperature 599 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	@Temperature 204 °C	@Temperature 399 °F	
	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	
Shrinkage	@Temperature 870 °C	@Temperature 1600 °F	
	0.240 %	0.240 %	width
	@Temperature 870 °C	@Temperature 1600 °F	

Thermal Properties	2.00 % Metric	2.00 % English	Comments
	@Temperature 870 °C, Time 86400 sec	@Temperature 1600 °F, Time 24.0 hour	length

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.52e+12 ohm-cm	4.52e+12 ohm-cm	
Surface Resistance	2.72e+12 ohm	2.72e+12 ohm	ohm/cm
Dielectric Strength	0.0610 kV/mm	1.55 kV/in	
Arc Resistance	304 sec	304 sec	

Processing Properties	Metric	English	Comments
Moisture Content	1.0 %	1.0 %	

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