

Pyrotek NAD-11 Structural Insulation Board

Category : Ceramic

Material Notes:

NAD-11 is an asbestos-free cement board with excellent electrical properties. It has a high density cement board reinforced with inorganic fibers. Applications Cathode support pads Platen insulation Element supports Oven cladding Furnace plates Induction furnaces

Advantages Dimensional stability Mechanical strength at temperature Non-combustible 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-11-Structural-Insulation-Board.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	
Density	1.75 g/cc	0.0632 lb/in ³	
Water Absorption	<= 0.50 %	<= 0.50 %	when silicone impregnated for 24 hours in water
	2.5 %	2.5 %	for 24 hours in 95% relative humidity
	3.0 %	3.0 %	for 100 hours in 95% humidity
	15 %	15 %	for 24 hour immersion in water

Mechanical Properties	Metric	English	Comments
Flexural Strength	22.0 MPa	3190 psi	after 24 hours at 500°C
	24.0 MPa	3480 psi	after 24 hours at 350°C
	32.0 MPa	4640 psi	after 24 hours at ambient temperature
Compressive Strength	118 MPa	17100 psi	
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.420 W/m-K	2.91 BTU-in/hr-ft ² -°F	
	@Temperature 150 °C	@Temperature 302 °F	
	0.470 W/m-K	3.26 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	V-0
Shrinkage	0.210 %	0.210 %	Linear
	@Temperature 350 °C, Time 86400 sec	@Temperature 662 °F, Time 24.0 hour	
	0.250 %	0.250 %	Linear
	@Temperature 500 °C, Time 86400 sec	@Temperature 932 °F, Time 24.0 hour	
	0.570 %	0.570 %	Linear
	@Temperature 705 °C, Time 86400 sec	@Temperature 1300 °F, Time 24.0 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
Dielectric Strength	2.90 kV/mm	73.7 kV/in	
Arc Resistance	370 sec	370 sec	

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