

## Unifrax Fiberfrax® Duraboard® 3000 Ceramic Fiber Board

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Fiberfrax® Duraboard® products are a family of rigid, high-temperature ceramic fiber boards manufactured in a wet forming process using Fiberfrax alumina-silica fibers and binders. All Duraboard products offer low thermal conductivity, high temperature stability, uniform density, and excellent resistance to thermal shock and chemical attack. Duraboard 3000 insulation, the highest temperature rated board manufactured by Unifrax, provides maximum high-temperature stability and shrinkage resistance. Also formulated from a blend of Fiberfrax alumina-silica fibers and Fibermax, Unifrax's patented polycrystalline mullite fibers, Duraboard 3000 insulation derives its exceptional high-temperature capability from an increased Fibermax fiber concentration in the blend. This unique formulation controls shrinkage to a level of only 1.2% after 168 hours at 2700°F / 1482°C. Description: Formed from a special blend of Fiberfrax alumina-silica fibers and Fibermax® Mullite fibers. These boards give high stability at temperatures up to 2700°F / 1482°C. Information Provided by Unifrax I LLC

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unifrax-Fiberfrax-Duraboard-3000-Ceramic-Fiber-Board.php](http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Duraboard-3000-Ceramic-Fiber-Board.php)

Physical Properties	Metric	English	Comments
Density	0.192 g/cc	0.00694 lb/in <sup>3</sup>	Nominal
Loss On Ignition	4.0 - 6.0 %	4.0 - 6.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000379 GPa	0.0550 ksi	Fired (24 hrs at cont. use)
	0.00103 GPa	0.150 ksi	Green (typ.)
Compressive Strength	0.0965 MPa	14.0 psi	5% Deformation; Fired
	0.0965 MPa	14.0 psi	10% Deformation; Fired
	0.0965 MPa	14.0 psi	15% Deformation; Fired
	0.290 MPa	42.0 psi	5% Deformation; Green
	0.303 MPa	44.0 psi	10% Deformation; Green
	0.324 MPa	47.0 psi	15% Deformation; Green

Thermal Properties	Metric	English	Comments
Melting Point	1871 °C	3400 °F	
Maximum Service Temperature, Air	1482 °C	2700 °F	Recommended Operating Temperature
	<= 2.0 %	<= 2.0 %	at Recommended Operating

Shrinkage Thermal Properties	Metric @ Time 86400 sec	English @ Time 24.0 hour	Temperature Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	Cream	
Fiberfrax® Fibers (%)	50	
Fibermax® Fibers (%)	50	
Temperature Grade (°C)	1649	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China