

## Unifrax Fiberfrax® Duraboard® RG 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 RG (Refractory Grade) insulation is a cost-effective insulating board manufactured with the specific requirements of the refractory industry in mind. It has a rolled, rigidized surface which gives it a high modulus of rupture and compressive strength as well as high abrasion and hot gas erosion resistance. These properties make Duraboard RG insulation ideally suited for use both as a backup to dense refractories, such as those used in the glass industry, and as a hot face protective layer over blanket linings where the rigidized surface aids in dust suppression during both installation and operation. Description: A rolled, rigidized surface finish and high MOR give a tough, economic refractory grade product. Information Provided by Unifrax I LLC

Order this product through the following link:

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

| Physical Properties | Metric      | English                    | Comments |
|---------------------|-------------|----------------------------|----------|
| Density             | 0.256 g/cc  | 0.00926 lb/in <sup>3</sup> | Nominal  |
| Loss On Ignition    | 5.0 - 7.0 % | 5.0 - 7.0 %                |          |

| Mechanical Properties | Metric       | English   | Comments                    |
|-----------------------|--------------|-----------|-----------------------------|
| Modulus of Rupture    | 0.000758 GPa | 0.110 ksi | Fired (24 hrs at cont. use) |
|                       | 0.00172 GPa  | 0.250 ksi | Green (typ.)                |
| Compressive Strength  | 0.172 MPa    | 25.0 psi  | 5% Deformation; Fired       |
|                       | 0.172 MPa    | 25.0 psi  | 10% Deformation; Fired      |
|                       | 0.172 MPa    | 25.0 psi  | 15% Deformation; Fired      |
|                       | 0.331 MPa    | 48.0 psi  | 5% Deformation; Green       |
|                       | 0.421 MPa    | 61.0 psi  | 10% Deformation; Green      |
|                       | 0.490 MPa    | 71.0 psi  | 15% Deformation; Green      |

| Thermal Properties               | Metric   | English  | Comments                          |
|----------------------------------|----------|----------|-----------------------------------|
| Melting Point                    | 1760 °C  | 3200 °F  |                                   |
| Maximum Service Temperature, Air | 1149 °C  | 2100 °F  | Recommended Operating Temperature |
|                                  | <= 5.0 % | <= 5.0 % | at Recommended Operating          |

| <b>Shrinkage</b><br>Thermal Properties | <b>Metric</b><br>@ Time 86400 sec | <b>English</b><br>@ Time 24.0 hour | <b>Temperature</b><br>Comments |
|--|-----------------------------------|------------------------------------|--------------------------------|
|--|-----------------------------------|------------------------------------|--------------------------------|

| <b>Electrical Properties</b> | <b>Metric</b> | <b>English</b> | <b>Comments</b> |
|------------------------------|---------------|----------------|-----------------|
| Dielectric Strength          | 1.06 kV/mm    | 27.0 kV/in     |                 |

| <b>Descriptive Properties</b> | <b>Value</b> | <b>Comments</b> |
|-------------------------------|--------------|-----------------|
| Color                         | Cream to tan |                 |
| Fiberfrax® Fibers (%)         | 100          |                 |
| Temperature Grade (°C)        | 1260         |                 |

## 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