

Unifrax Fiberfrax® Duraboard® 500ES 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. This product uses a unique fiber formulation to obtain high strength and machinability not normally achieved in light-weight ceramic fiber board products. The innovative composite binder system using both inorganic and organic components results in a strength-to-weight ratio of more than three times that of standard refractory ceramic fiber boards. Improved physical characteristics of this product allows for easier handling and fabrication. Duraboard 500ES has more than four times the strength of standard boards of similar densities and thicknesses. Description: Unique family of highly machinable lightweight boards manufactured with three to four times the green strength as standard board products. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Duraboard-500ES-Ceramic-Fiber-Board.php

Physical Properties	Metric	English	Comments
Density	0.352 g/cc	0.0127 lb/in ³	Nominal
Loss On Ignition	4.0 - 8.0 %	4.0 - 8.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00117 GPa	0.170 ksi	Fired (24 hrs at cont. use)
	0.00310 GPa	0.450 ksi	Green (typ.)
Compressive Strength	0.193 MPa	28.0 psi	5% Deformation; Fired
	0.228 MPa	33.0 psi	10% Deformation; Fired
	0.234 MPa	34.0 psi	15% Deformation; Fired
	0.283 MPa	41.0 psi	5% Deformation; Green
	0.448 MPa	65.0 psi	10% Deformation; Green
	0.524 MPa	76.0 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
Shrinkage	<= 5.0 %	<= 5.0 %	at Recommended Operating Temperature
	@Time 86400 sec	@Time 24.0 hour	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	Cream to tan	
Fiberfrax® Fibers (%)	90	
Temperature Grade (°C)	1260	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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