Form 6448
Rev. 04 6/05

DURALITE NON-FIRE RATED, HIGH STRENGTH TECHNICAL DATA

Kemlite Company, Inc. was founded in 1954 and is the world's largest manufacturer of fiberglass reinforced plastic (frp) panels.

Since its inception, Kemlite Company has pioneered products into the Commercial, Residential, Transportation, and Recreational Vehicle applications with new technology resulting in patents and consistent leadership.

With constant research for new products and markets, Kemlite Company saw a need in the industrial/corrosion market to produce a value-added, high quality frp product. To keep up with customer demands, Kemlite Company offers Industrial FRP Building Systems - a complete line of high performance translucent and opaque frp panels designed specifically for corrosive environments.

Manufacturers around the world have literally seen the benefits frp panels can add to their facility structures. In many cases, manufacturers replaced failed metal cladding in their structures with corrosion resistant translucent frp panels. By using frp instead of metal, manufacturers can significantly cut down on unnecessary costs in replacing corroded building products.

The **DURALITE High Strength (DLW)** translucent and opaque frp panel was developed to provide the high quality the marketplace was demanding. Polyester resin combined with high strength woven roving fiberglass provides this panel with the structural integrity it needs to achieve long-term performance.

DURALITE High Strength panels are used where moderate corrosion protection and weathering characteristics are required. This panel can be used in such applications as refineries, pulp and paper mills, mining operations, wastewater facilities, fertilizer plants, and many other challenging environments.

Product Features

Corrosion Resistant
Manufactured with a non-fire rated polyester resin, these panels are corrosion resistant as well as shatter resistant and U.V. stabilized.

High Quality
Kemlite Company has been manufacturing high quality frp products worldwide for over 50 years.

Available Weights
8oz/ft^2 through 16oz/ft^2

Available Glass Reinforcement
High strength combination of bidirectional woven roving and chopped strand fiberglass. Nominal glass content is 40% by weight.

Available Profiles
Three standard profiles are available: 4.2" x 1-1/16", 7.2" x 1-1/2", 5.33" x 1-3/4". Non-standard profiles available: 2.67" x 7/8", 2.5" x 1/2", 7" x 1-1/2", 4" x 1", 13.3" x 1-7/8". Call Kemlite Company for information on special profiles.

Available Colors
Two standard translucent colors are available: White (405) and Clear (502). Three standard Opaque colors are available: Stone White (945), Gray (675) and Beige (865).

Embossed Exterior/Smooth Interior Surface
Available in embossed exterior and smooth interior surfaces. Gel-Coat available where higher quality finishes are required.

Improved Weatherability
High quality manufacturing allows these panels to stand up to fluctuating environmental conditions.

Manufacturing Tolerance
Coverage width/length tolerance for all profiles: 1/4".

Meets ASTM D3841
Standard specifications for Glass-Fiber-Reinforced Polyester Plastic Panels.

DURALITE NON-FIRE RATED, HIGH STRENGTH TECHNICAL DATA

Physical Properties

Property: Barcol Hardness
Nominal: 50
Test: ASTM D2583

Property: Flexural Strength
Nominal: 30,000 psi
Test: ASTM D790

Property: Flexural Modulus
Nominal: 1,100,000 psi
Test: ASTM D790

Property: Tensile Strength
Nominal: 25,000 psi
Test: ASTM D638

Property: Coefficient of Expansion
Nominal: 1.6 x 10^{-5} in/in/°F
Test: ASTM D696

Property: Conductivity (K Factor)
Nominal: 1.2 BTU/in/hr/ft^2/°F
Test: ASTM C177

Property: Flame Spread*
Nominal: N/A
Test: ASTM E84

Property: Flammability - Average Time of Burning
Nominal: Less than 2 in/min
Test: ASTM D635

Property: Flammability - Building Code Classification
Nominal: CC2 or C2
Test: ASTM D635

Note: Physical properties are based on standard 8oz/ft^2

*Kemlite advises that the numerical flame spread classification is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Cautions

Fire Resistant Comparisons

References to flammability of Kemlite Industrial FRP Building Systems panels reflect laboratory tests which compare burning characteristics of building products. These references do not imply that the panels will not burn. All fiberglass panels will burn under proper conditions and certainly in a full scale fire. Once ignited, they may burn rapidly, releasing dense smoke. For appropriate precautions, request "Fire Safety Guidelines for Use of FRP Panels", Society of the Plastics Industry.

Safety

DO NOT WALK ON PANELS. Kemlite Industrial FRP Building Systems panels are not intended to support the undistributed weight of workers. Roofing ladders or 1" x 12" planks, or equivalent means of protection must be used during any work on roofs. Observe fire safety.

Storage/Maintenance

Proper storage and maintenance will help maximize performance and longevity of Kemlite Industrial FRP Building Systems panels. Refer to Technical Data #6440 for more information.

Load Span Table

See Form #6662

Grand Junction Sales Office
1-800-238-6874
1-731-764-2153
1-731-764-6316 fax
E-Mail: industrialfrp@kemlite.com
Website: www.industrialfrp.com