Glasteel™
Fiberglass Reinforced Panels
a division of Stabilit America Inc.

03/20/25

# TECHNICAL DATA SHEET

GLASTEEL **Acrylit GC** HIGH STRENGTH WOVEN STRAND FIBERGLASS

| KBS R-Panel Roof Trans Panel | KBS R-Panel, Reverse R-Panel & A-Panel Wall Trans Panel |
|---|---|

**Product Description: Consisting of an 8 OZ. 100 % Acrylic Translucent Panel Woven Roving combined with chopped strand Fiberglass Reinforcement**

| Property | ASTM Std. | Typical Values |
|---|---|---|
| • Tensile Strength | • D638 | • 25,772 psi. |
| • Tensile Modulus | • D638 | • 1.52 X$10^6$ psi. |
| • Flexural Strength | • D790 | • 24,306 psi. |
| • Flexural Modulus | • D790 | • 0.79 X $10^6$ psi. |
| • Compressive Strength | • D695 | • 28,905 psi. |
| • Self-Ignition Temperature | • D1929 | • GREATER THAN 650$^0$ F |
| • *SMOKE DENSITY | • E-84 | • <450 |
| • Compressive Modulus | • D-695 | • 1.5 X $10^6$ psi |
| • *Burning Rate | • D-635 | • <2.5 in / min. |
| • *Uniform Building Code Classification | • D-635 | • CC2 |
| • Barcol Hardness | • D-2583 | • 40-50 |
| • *Light Transmission | • D-1494 | • 55-60 |
| • *U Factor (with Film Coefficients) | • NFRC 102-2004 | • 1.08 BTU/ Hr ft2°F |
| • * Linear Thermal Expansion | • D-638 | • 1.9* X $10^{-5}$ IN. / IN./$^0$ F |
| • Bearing Strength | • D-953 | • 24.8 ksi (3.88) |
| • Water Absorption | • D-570 | • 0.25% @ 72$^0$ F /72 hrs. |
| • SOLAR HEAT GAIN | • NFRC 201-2004 | • .45 |
| • *SOLAR ABSORBTANCE | • E-903 | • 77.73 |
| • *REFLECTANCE AND EMMITANCE | • E-1371/E1918 | • .58 / .91 |
| • IZOD IMPACT | • D-4812 | 18.59 Ft-lb / in$^2$ |
| • Luminous transmittance | • D 1003-07 | • 77.18% |
| • Haze | • D-1003-07 | • 112.78 % |

**Tolerances:**

| | | |
|---|---|---|
| Panel Weight | +/- | 10% |
| Rib Height | +/- | 1/16th |
| Length | +/- | 1/8th |
| Width | +/- | 1/8th |
| SQUARENESS | ..+/- | 1/8th |

**Codes and approvals:**

ASTM-D3841 "Specifications for Glass Fiber-Reinforced Polyester Plastic Panels"UL90
Recognized Component File (#R5214)
ICBO# ER-2364

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