

Iten Industries

Resiten® G11 Performance Values

NEMA G11 glass epoxy with mechanical and operating temperatures superior to FR4 and a U.L. flammability rating of 94 HB

| <u>Properties</u> | <u>Test Conditions</u> | <u>ASTM</u> | <u>Values</u> |
|------------------------------|-------------------------|-------------|-----------------|
| Thickness | | | .125 inches |
| Tensile Strength: | Lengthwise | D638 | 58,600 psi |
| | Crosswise | | 41,900 psi |
| Flexural Strength: | Condition A Lengthwise | D790 | 76,700 psi |
| | " Crosswise | | 59,600 psi |
| | D48/50 Lengthwise | | 69,800 psi |
| | " Crosswise | | 55,700 psi |
| Compressive Strength: | Lengthwise | D695 | 36,700 psi |
| | Crosswise | | 32,900 psi |
| | Flatwise | | 48,500+ psi |
| Izod Impact (notched): | Condition A Lengthwise | D256 | 15.3 ft.lb./in. |
| | " Crosswise | | 9.0 ft.lb./in. |
| | D48/50 Lengthwise | | 15.1 ft.lb./in. |
| | " Crosswise | D256 | 8.8 ft.lb./in. |
| | E48/50 Lengthwise | | 14.6 ft.lb./in. |
| | " Crosswise | | 8.4 ft.lb./in. |
| Shear Strength | Condition A .062" thick | D732-90 | 21,400 lbs |
| | .125" thick | | 24,000 lbs |
| Water Absorption | | D570 | 0.15% of weight |
| Specific Gravity | | D792 | 1.87 |
| U.L. Subject 94 | | UL94 | 94HB |
| Dielectric Strength (in oil) | | D149 | 521 Vpm |
| Dielectric Breakdown: | Condition A | D149 | 66 kV |
| | D48/50 | | 60 kV |
| Arc Resistance: | Condition A | D495 | 131 seconds |
| | D48/50 | | 131 seconds |
| Permittivity, 1MHz: | Condition A | D150 | 4.85 |
| | D24/23 | | 4.90 |
| Dissipation Factor, 1MHz: | Condition A | D150 | 0.016 |
| | D24/23 | | 0.016 |
| Permittivity, 1KHz: | Condition A | D150 | 5.12 |
| | D24/23 | | 5.25 |
| Dissipation Factor, 1KHz: | Condition A | D150 | 0.008 |
| | D24/23 | | 0.010 |
| U.L. temperature Index: | Electrical | | 170° C |
| | Mechanical | | 180° C |

Resiten® G11 meets NEMA G11 specifications

The standard sheet size is 36" x 48"

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All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application

www.itenindustries.com

Imagineering with Plastics

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