

Iten Industries

Itenite® 817 Performance Values

| <u>Properties</u> | <u>Test Condition</u> | <u>ASTM</u> | <u>Test Values</u> |
|-------------------------------|-----------------------|-----------------|--------------------|
| Thickness | | | .125 inches |
| Tensile Strength: | | Lengthwise D638 | 16,000 psi |
| | | Crosswise | 8,500 psi |
| Flexural Strength: | Condition A | Lengthwise D790 | 22,400 psi |
| | Condition A | Crosswise | 15,200 psi |
| | D48/50 | Lengthwise | 9,370 psi |
| | D48/50 | Crosswise | 4,420 psi |
| Compressive Strength: | | Lengthwise D695 | 14,000 psi |
| | | Crosswise | 11,700 psi |
| | | Flatwise | >45,000 psi |
| Izod Impact (notched): | Condition A | Lengthwise D256 | 1.26 ft.lb./in. |
| | Condition A | Crosswise | 1.14 ft.lb./in. |
| | D48/50 | Lengthwise | 5.16 ft.lb./in. |
| | D48/50 | Crosswise D256 | 4.59 ft.lb./in. |
| | E48/50 | Lengthwise | 1.18 ft.lb./in. |
| | E48/50 | Crosswise | 1.09 ft.lb./in. |
| Water Absorption | | D570 | 13.90% of weight |
| Specific Gravity | | D792 | 1.37 |
| U.L. Subject 94 | | UL94 | 94HB |
| Dielectric Strength | | D149 | 309 Vpm |
| Dielectric Breakdown: | Condition A | D149 | 60 Kv |
| | D48/50 | | 4.1 Kv |
| Arc Resistance: | Condition A | D495 | 128 seconds |
| Comparative Track Index (CTI) | at '.075" thick | U.L. 746A | >500 volts |
| U.L HV Track Rate | at '.075" thick | U.L. 746A | 1.4 mm/Min. |
| Permittivity, 1MHz: | Condition A | D150 | 5.93 |
| | D24/23 | | 8.13 |
| Dissipation Factor, 1MHz: | Condition A | D150 | 0.052 |
| | D24/23 | | 0.112 |
| Permittivity, 1KHz: | Condition A | D150 | 6.81 |
| | D24/23 | | 7.56 |
| Dissipation Factor, 1KHz: | Condition A | D150 | 0.054 |
| | D24/23 | | 4.962 |
| U.L. Hot Wire Ignition | at '.075" thick | U.L. 746A | 30 Seconds |
| U.L. High Amp Ignition | at '.075" thick | U.L. 746A | >200 Exposure |
| U.L. temperature Index: | | Electrical | 90° C |
| | | Mechanical | 90° C |

Standard Sheet sizes are 48" x 72", & 48" x 96"

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 &
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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.

Imagineering With Plastics

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