

Iten Industries

Resiten® CE Performance Values

| <u>Properties</u> | <u>Test Condition</u> | <u>ASTM</u> | <u>Values</u> | <u>Values</u> |
|---------------------------------------|-----------------------|-----------------|-----------------|-----------------|
| Thickness | | | .125 inches | .500 inches |
| Tensile Strength: | | Lengthwise D638 | 15,100 psi | |
| | | Crosswise | 7,900 psi | |
| Flexural Strength: | Condition A | Lengthwise D790 | 27,100 psi | 24,800 psi |
| | Condition A | Crosswise | 17,000 psi | 16,300 psi |
| | D48/50 | Lengthwise | 25,600 psi | |
| | D48/50 | Crosswise | 28,600 psi | |
| Compressive Strength: | | Lengthwise D695 | 24,800 psi | 32,100 psi |
| | | Crosswise | 23,400 psi | 29,500 psi |
| | | Flatwise | > 45,000 psi | > 45,000 psi |
| Izod Impact (notched): | Condition A | Lengthwise D256 | 2.36 ft.lb./in. | 2.26 ft.lb./in. |
| | Condition A | Crosswise | 1.55 ft.lb./in. | 1.25 ft.lb./in. |
| | D48/50 | Lengthwise | 3.09 ft.lb./in. | 2.36 ft.lb./in. |
| | D48/50 | Crosswise | 1.66 ft.lb./in. | 1.43 ft.lb./in. |
| | E48/50 | Lengthwise | 2.58 ft.lb./in. | 2.32 ft.lb./in. |
| | E48/50 | Crosswise | 1.47 ft.lb./in. | 1.30 ft.lb./in. |
| Bond Strength | Condition A | D229 | | 2,300 pounds |
| | D48/50 | | | 2,300 pounds |
| Water Absorption | | D570 | .59% of weight | .35% of weight |
| Specific Gravity | | D792 | 1.36 | 1.36 |
| U.L. Subject 94 | | UL94 | HB | HB |
| Dielectric Strength | | D149 | 293 Vpm | |
| Dielectric Breakdown: | Condition A | D149 | 65.9 kV | 50.7 kV |
| | D48/50 | | 5.1 kV | 6.0 kV |
| Arc Resistance: | Condition A | D495 | 37 seconds | 36 seconds |
| | D48/50 | | 9 seconds | 10 seconds |
| Comparative Track Index (CTI) @ .057" | | U.L. 746A | 140 Volts | |
| U.L HV Track Rate @ .057" | | U.L. 746A | 4.9 mm/min. | |
| Permittivity, 1MHz: | Condition A | D150 | 4.85 | |
| | D24/23 | | 5.00 | |
| Dissipation Factor, 1MHz: | Condition A | D150 | .050 | |
| | D24/23 | | .062 | |
| Permittivity, 1KHz: | Condition A | D150 | 6.29 | |
| | D24/23 | | 7.50 | |
| Dissipation Factor, 1KHz: | Condition A | D150 | .110 | |
| | D24/23 | | .190 | |
| Permittivity, 60 Hz: | Condition A | D150 | 8.15 | |
| | D24/23 | | 11.44 | |
| Dissipation Factor, 60 Hz: | D24/23 | | .248 | |
| U.L. Hot Wire Ignition @ .057" | | U.L. 746A | 50.2 seconds | |
| U.L. High Amp Ignition @ .057" | | U.L. 746A | 200 + Exposure | |
| U.L. temperature Index @ .057": | | Electrical | 115° C | |
| | | Mechanical | 125° C | |

Resiten® CE meets NEMA specifications for CE, Mil type FBG, & GE A19B18A1 & A2

Standard Sheet sizes are 36" x 46" , 48" x 48" & 48" x 96"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614

Addison, Illinois 60101 630-543-2820 Fax 630-543-1463

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

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