

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.
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"

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

Addison, Illinois 60101 630-543-2880 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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