

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"

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

www.itenindustries.com

Imagineering with Plastics

July 10, 2000