Iten Industries

Resiten® G10 Performance Values

An all purpose non-halogenated NEMA G10 glass epoxy sheet for electrical/electronic applications requiring moisture resistance and high mechanical strength. Not intended for arc and flame resistance. Meets MIL-I-24768/2

	Test		
Properties	Condition	ASTM	Values
Thickness			.125 inches
Tensile Strength:	Condition A Length	wise D638	57,500 psi
5	Crosswi		39,500 psi
Flexural Strength:	Condition A Length	wise D790	80,000 psi
-	Crosswi	e	65,000 psi
	D48/50 Length	wise	78,000 psi
	Crosswi	e	60,000 psi
Compressive Strength:	Condition A Length	wise D695	42,000 psi
	Crosswi		41,000 psi
	Flatwise		48,500 + psi
Izod Impact (notched):	Condition A Length	wise D256	15 ft.lb./in.
	Crosswi	se	9 ft.lb./in.
	D48/50 Length	wise	14.5 ft.lb./in.
	Crosswi	e D256	8.5 ft.lb./in.
	E48/50 Length	wise	16 ft.lb./in.
	Crosswi	ie -	9.5 ft.lb./in.
Water Absorption		D570	.10% of weight
Specific Gravity		D792	1.95
Flammability		UL94	HB
Dielectric Strength		D149	488 Vpm
Dielectric Breakdown:	Condition A	D149	80+ kV
	D48/50		45.2 kV
Permittivity, 1MHz:	Condition A	D150	4.79
	D24/23		4.89
Dissipation Factor, 1MHz:	Condition A	D150	0.016
	D24/23		0.016
Permittivity, 1KHz:	Condition A	D150	5.04
	D24/23		5.17
Dissipation Factor, 1KHz:	Condition A	D150	0.005
Shear Strength		D732-90	21,000 PSI
Coefficient of Thermal Expansion, cm/cm/degC			1 x 10-5
Thermal Conductivity, calories per sec. /sq.cm /degree C/cm of thickness			7 x 10-4
Youngs Modulus			2,500,000 psi
U.L. temperature Index:		Electrical	
Mechanical			140° C
Coefficient of Friction with semi gloss finish is $\approx .25$ to .300			
Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"			
Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614			
All values are average test results from typical production material. No warranty			

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is implied or guarranteed and testing is recommended for each application.

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