

Iten Industries

Resiten® GLEM Performance Values

A fine weave cotton fabric/melamine laminate with a glass epoxy interleave. GLEM was developed for breaker switch applications with arc resistance, arc quenching, and high linear strength requirements.

<u>Properties</u>	<u>Test</u>		<u>ASTM</u>	<u>Values</u>
	<u>Condition</u>			
Thickness				.050 inches
Tensile Strength:	Condition A	Lengthwise	D638	39,300 psi
	Condition A	Crosswise		29,900 psi
Flexural Strength:	Condition A	Lengthwise	D790	64,600 psi
	Condition A	Crosswise		36,500 psi
	D48/50	Lengthwise		68,400 psi
	D48/50	Crosswise		47,600 psi
Compressive Strength:		Lengthwise	D695	8,400 psi
		Crosswise		5,000 psi
		Flatwise		45,000+ psi
U.L. Subject 94				94 HB
Water Absorption			D570	.94% of weight
Specific Gravity			D792	1.81
Dielectric Strength			D149	640+ Vpm
Dielectric Breakdown:	Condition A		D149	80+ Kv
	D48/50			7 Kv
Arc Resistance:	Condition A		D495	98 seconds
	D48/50			61 seconds
Permittivity, 1MHz:	Condition A		D150	3.94
	D24/23			4.26
Dissipation Factor, 1MHz:	Condition A		D150	0.019
	D24/23			0.030
Permittivity, 1KHz:	Condition A		D150	4.26
	D24/23			5.62
Dissipation Factor, 1KHz:	Condition A		D150	0.020
	D24/23			0.047
Permittivity, 60 Hz:	Condition A		D150	4.45
	D24/23			6.20
Dissipation Factor, 60 Hz:	Condition A		D150	0.031
	D24/23			0.064
U.L. temperature Index:		Electrical		115° C
		Mechanical		125° C

Standard Sheet sizes are 36" x 48", 48" x 48"

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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.