

Iten Industries

Resiten® LFBI Performance Values

A fine weave cotton fabric/phenolic laminate that meets or exceeds NEMA grade L

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>	<u>Values</u>
Thickness			.062 inches	.125 inches	.500 inches
Tensile Strength:	Lengthwise	D638	9,130 psi	11,000 psi	
	Crosswise		9,040 psi	9,300 psi	
Flexural Strength:	Condition A Lengthwise	D790	16,400 psi	16,800 psi	18,000 psi
	Condition A Crosswise		19,900 psi	16,500 psi	14,800 psi
	D48/50 Lengthwise		18,200 psi	17,300 psi	
	D48/50 Crosswise		18,200 psi	17,000 psi	
Compressive Strength:	Lengthwise	D695	7,170 psi	20,900 psi	27,900 psi
	Crosswise		5,870 psi	18,900 psi	27,400 psi
	Flatwise			> 45,000 psi	> 45,000 psi
Izod Impact (notched):	Condition A Lengthwise	D256	1.26 ft.lb./in.	1.2 ft.lb./in.	1.78 ft.lb./in.
	Condition A Crosswise		1.18 ft.lb./in.	1.11 ft.lb./in.	1.00 ft.lb./in.
	D48/50 Lengthwise		1.37 ft.lb./in.	1.5 ft.lb./in.	1.24 ft.lb./in.
	D48/50 Crosswise		1.07 ft.lb./in.	1.14 ft.lb./in.	1.09 ft.lb./in.
	E48/50 Lengthwise		1.13 ft.lb./in.	1.21 ft.lb./in.	1.11 ft.lb./in.
	E48/50 Crosswise		1.11 ft.lb./in.	1.19 ft.lb./in.	.99 ft.lb./in.
Bond Strength	Condition A	D229			1,620 pounds
	D48/50				1,870 pounds
Water Absorption		D570	1.56% of weight	1.05% of weight	.79% of weight
Specific Gravity		D792	1.33	1.33	1.32
U.L. Subject 94		UL94	HB	HB	V-O
Dielectric Strength		D149	485 Vpm	270 Vpm	
Dielectric Breakdown:	Condition A	D149	41 kV	35 kV	15 kV
	D48/50		4 kV	5 kV	8 kV
Arc Resistance:	Condition A	D495	39 seconds	54 seconds	45 seconds
	D48/50		6 seconds	7 seconds	50 seconds
Permittivity, 1MHz:	Condition A	D150	4.83	5.06	
	D24/23		5.22	5.32	
Dissipation Factor, 1MHz:	Condition A	D150	.050	.056	
	D24/23		.064	.066	
Permittivity, 1KHz:	Condition A	D150	6.75	7.54	
	D24/23		8.41	9.03	
Dissipation Factor, 1KHz:	Condition A	D150	.154	.198	
	D24/23		.228	.260	
U.L. temperature Index:	Electrical		115° C	115° C	115° C
	Mechanical		125° C	125° C	125° C

Resiten® is a halogen free laminate

Resiten® LFBI meets NEMA specifications for L, Mil type FBI, & GE A19B16A1 & A2

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.

www.itenindustries.com

Imagineering with Plastics

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