

Iten Industries

Resiten® CEF490 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>	<u>Values</u>
Thickness			0.031	0.062	0.125
Tensile Strength:	Lengthwise	D638	7,500 psi	12,500 psi	12,500 psi
	Crosswise		7,500 psi	11,500 psi	12,400 psi
Flexural Strength:	Condition A Lengthwise	D790	21,000 psi	23,400 psi	20,500 psi
	Condition A Crosswise		18,700 psi	21,700 psi	19,900 psi
	D48/50 Lengthwise		18,500 psi	21,700 psi	20,800 psi
	D48/50 Crosswise		17,400 psi	21,000 psi	20,600 psi
Compressive Strength:	Lengthwise	D695	1,100 psi	6,500 psi	18,800 psi
	Crosswise		1,000 psi	6,500 psi	16,900 psi
	Flatwise	D256	45,000+ psi	45,000+ psi	45,000+ psi
Izod Impact (notched):	Condition A Lengthwise	D256	1.57 ft.lb./in.	1.82 ft.lb./in.	1.63 ft.lb./in.
	Condition A Crosswise		1.52 ft.lb./in.	1.36 ft.lb./in.	1.31 ft.lb./in.
	D48/50 Lengthwise		2.23 ft.lb./in.	2.33 ft.lb./in.	1.77 ft.lb./in.
	D48/50 Crosswise	D256	1.95 ft.lb./in.	1.5 ft.lb./in.	1.49 ft.lb./in.
	E48/50 Lengthwise		1.43 ft.lb./in.	1.81 ft.lb./in.	1.65 ft.lb./in.
	E48/50 Crosswise		1.17 ft.lb./in.	1.42 ft.lb./in.	1.32 ft.lb./in.
Water Absorption		D570	5.42% of weight	2.48% of weight	1.67% of weight
Specific Gravity		D792	1.35	1.36	1.35
U.L. Subject 94		UL94	HB	HB	HB
Electric Strength		D149	169 Vpm (air)	116 Vpm (air)	89 Vpm (air)
Dielectric Breakdown:	Condition A	D149	22 kV	23 kV	9 kV
	D48/50		10 kV	0	3 kV
Arc Resistance:	Condition A	D495	35 seconds	37 seconds	15 seconds
	D48/50		12 seconds	0	0
Permittivity, 1MHz:	Condition A	D150	5.57	5.60	6.47
	D24/23		8.68	6.93	7.00
Dissipation Factor, 1MHz:	Condition A	D150	0.099	0.082	0.307
	D24/23		0.263	0.133	0.125
Permittivity, 1KHz:	Condition A	D150	11.76	11.72	14.10
	D24/23		34.83	20.44	20.94
Dissipation Factor, 1KHz:	Condition A	D150	0.289	0.322	0.403
	D24/23		0.398	0.502	0.617
Permittivity, 60 Hz:	Condition A	D150	21.62	23.40	31.96
	D24/23		50.35	49.11	67.00
Dissipation Factor, 60 Hz:	Condition A	D150	0.277	0.387	0.596
	D24/23		0.646	0.378	0.498

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

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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