

Iten Industries

Resiten® CEM800 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>
Thickness			.125 inches	.062 inches
Tensile Strength:	Lengthwise	D638	9,200 psi	9,100 psi
	Crosswise		8,700 psi	8,300 psi
Flexural Strength:	Condition A Lengthwise	D790	17,500 psi	16,100 psi
	Condition A Crosswise		17,100 psi	15,200 psi
	D48/50 Lengthwise		19,500 psi	17,800 psi
	D48/50 Crosswise		19,000 psi	17,700 psi
Compressive Strength:	Lengthwise	D695	26,300 psi	9,100 psi
	Crosswise		25,400 psi	8,400 psi
	Flatwise	D256	45,000+ psi	45,000+ psi
Izod Impact (notched):	Condition A Lengthwise	D256	1.14 ft.lb./in.	1.38 ft.lb./in.
	Condition A Crosswise		1.09 ft.lb./in.	1.18 ft.lb./in.
	D48/50 Lengthwise		1.18 ft.lb./in.	1.47 ft.lb./in.
	D48/50 Crosswise	D256	1.02 ft.lb./in.	1.12 ft.lb./in.
	E48/50 Lengthwise		1.27 ft.lb./in.	1.45 ft.lb./in.
	E48/50 Crosswise		1.227ft.lb./in.	1.15ft.lb./in.
Water Absorption		D570	4.18% of weight	8.18% of weight
Specific Gravity		D792	1.48	1.48
U.L. Subject 94		UL94	94VO	94VO
Dielectric Strength		D149	68 Vpm	148 Vpm
Dielectric Breakdown:	Condition A	D149	24 kV	37 kV
	D48/50		3 kV	3 kV
Arc Resistance:	Condition A	D495	129 seconds	128 seconds
	D48/50		4 seconds	8 seconds
Permittivity, 1MHz:	Condition A	D150	7.31	6.71
	D24/23		8.99	12.87
Dissipation Factor, 1MHz:	Condition A	D150	0.077	0.069
	D24/23		0.145	0.269
Permittivity, 1KHz:	Condition A	D150	15.13	11.66
	D24/23		32.06	35.65
Dissipation Factor, 1KHz:	Condition A	D150	0.457	0.285
	D24/23		0.421	0.190

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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