

Iten Industries

Itenite® 817 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Test Values</u>
Thickness			.125 inches
Tensile Strength:		Lengthwise D638	16,000 psi
		Crosswise	8,500 psi
Flexural Strength:	Condition A	Lengthwise D790	22,400 psi
	Condition A	Crosswise	15,200 psi
	D48/50	Lengthwise	9,370 psi
	D48/50	Crosswise	4,420 psi
Compressive Strength:		Lengthwise D695	14,000 psi
		Crosswise	11,700 psi
		Flatwise	>45,000 psi
Izod Impact (notched):	Condition A	Lengthwise D256	1.26 ft.lb./in.
	Condition A	Crosswise	1.14 ft.lb./in.
	D48/50	Lengthwise	5.16 ft.lb./in.
	D48/50	Crosswise D256	4.59 ft.lb./in.
	E48/50	Lengthwise	1.18 ft.lb./in.
	E48/50	Crosswise	1.09 ft.lb./in.
Water Absorption		D570	13.90% of weight
Specific Gravity		D792	1.37
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	309 Vpm
Dielectric Breakdown:	Condition A	D149	60 Kv
	D48/50		4.1 Kv
Arc Resistance:	Condition A	D495	128 seconds
Comparative Track Index (CTI)	at '.075" thick	U.L. 746A	>500 volts
U.L HV Track Rate	at '.075" thick	U.L. 746A	1.4 mm/Min.
Permittivity, 1MHz:	Condition A	D150	5.93
	D24/23		8.13
Dissipation Factor, 1MHz:	Condition A	D150	0.052
	D24/23		0.112
Permittivity, 1KHz:	Condition A	D150	6.81
	D24/23		7.56
Dissipation Factor, 1KHz:	Condition A	D150	0.054
	D24/23		4.962
U.L. Hot Wire Ignition	at '.075" thick	U.L. 746A	30 Seconds
U.L. High Amp Ignition	at '.075" thick	U.L. 746A	>200 Exposure
U.L. temperature Index:		Electrical	90° C
		Mechanical	90° C

Standard Sheet sizes are 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 is implied or guaranteed and testing is recommended for each application.

Imagineering With Plastics

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