

# Iten Industries

## Itenite® 816 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Test Values</u>
Thickness			.135 inches
Tensile Strength:		Lengthwise D638	15,700 psi
		Crosswise	9,400 psi
Flexural Strength:	Condition A	Lengthwise D790	22,700 psi
	Condition A	Crosswise	16,400 psi
	D48/50	Lengthwise	12,500 psi
	D48/50	Crosswise	7,700 psi
Compressive Strength:		Lengthwise D695	15,600 psi
		Crosswise	13,500 psi
		Flatwise	>45,000 psi
Izod Impact (notched):	Condition A	Lengthwise D256	1.25 ft.lb./in.
	Condition A	Crosswise	1.15 ft.lb./in.
	D48/50	Lengthwise	5.31 ft.lb./in.
	D48/50	Crosswise D256	5.00 ft.lb./in.
	E48/50	Lengthwise	1.25 ft.lb./in.
	E48/50	Crosswise	1.15 ft.lb./in.
Water Absorption		D570	6.39% of weight
Specific Gravity		D792	1.38
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	315 Vpm
Dielectric Breakdown:	Condition A	D149	80 kV
	D48/50		9.0 kV
Arc Resistance:	Condition A	D495	129 seconds
Comparative Track Index (CTI)	at '.075" thick	U.L. 746A	>500 volts
U.L HV Track Rate	at '.075" thick	U.L. 746A	1.7 mm/Min.
Permittivity, 1MHz:	Condition A	D150	5.06
	D24/23		5.55
Dissipation Factor, 1MHz:	Condition A	D150	0.0330
	D24/23		0.0520
Permittivity, 1KHz:	Condition A	D150	5.51
	D24/23		6.19
Dissipation Factor, 1KHz:	Condition A	D150	0.0330
	D24/23		0.0520
U.L. Hot Wire Ignition	at '.075" thick	U.L. 746A	15 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"

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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.

Imagineering with Plastics

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