

# Iten Industries

## Resiten® 310L Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>310L Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	20,600 psi
	Crosswise		14,900 psi
Flexural Strength:	Condition A Lengthwise	D790	27,900 psi
	Condition A Crosswise		21,800 psi
	D48/50 Lengthwise		16,100 psi
	D48/50 Crosswise		12,700 psi
Compressive Strength:	Lengthwise	D695	15,300 psi
	Crosswise		13,700 psi
Izod Impact (notched):	Condition A Lengthwise	D256	0.66 ft.lb./in.
	Condition A Crosswise		0.43 ft.lb./in.
	D48/50 Lengthwise		1.16 ft.lb./in.
	D48/50 Crosswise	D256	1.01 ft.lb./in.
	E48/50 Lengthwise		0.64 ft.lb./in.
	E48/50 Crosswise		0.42 ft.lb./in.
Water Absorption		D570	3.06% of weight
Specific Gravity		D792	1.39
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	374+ Vpm
Dielectric Breakdown:	Condition A	D149	84.6 kV
	D48/50		2.0 kV
Arc Resistance:	Condition A	D495	66.2 seconds
	D48/50		0 seconds
Comparative Track Index (CTI)		U.L. 746A	120 volts
U.L HV Track Rate		U.L. 746A	6 mm/Min.
Permittivity, 1MHz:	Condition A	D150	4.80
	D24/23		5.60
Dissipation Factor, 1MHz:	Condition A	D150	0.0446
	D24/23		0.0784
Permittivity, 1KHz:	Condition A	D150	5.89
	D24/23		11.71
Dissipation Factor, 1KHz:	Condition A	D150	0.0866
	D24/23		0.5911
U.L. Hot Wire Ignition		U.L. 746A	7.6 Seconds
U.L. High Amp Ignition		U.L. 746A	15.7 Exposure
U.L. temperature Index:	Electrical		130° C
	Mechanical		130° C

Standard Sheet sizes are 36" x 48", 48" x 48", 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.

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Imagineering With Plastics

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