

# Iten Industries

## Resiten® 112 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	23,900 psi
	Crosswise		16,100 psi
Flexural Strength:	Condition A Lengthwise	D790	29,300 psi
	Condition A Crosswise		23,800 psi
	D48/50 Lengthwise		26,600 psi
	D48/50 Crosswise		21,600 psi
Compressive Strength:	Lengthwise	D695	20,000 psi
	Crosswise		17,500 psi
Izod Impact (notched):	Condition A Lengthwise	D256	0.55 ft.lb./in.
	Condition A Crosswise		0.46 ft.lb./in.
	D48/50 Lengthwise		0.68 ft.lb./in.
	D48/50 Crosswise	D256	0.59 ft.lb./in.
	E48/50 Lengthwise		0.53 ft.lb./in.
	E48/50 Crosswise		0.46 ft.lb./in.
Water Absorption		D570	1.28% of weight
Specific Gravity		D792	1.40
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	365 Vpm
Dielectric Breakdown:	Condition A	D149	79.1 kV
	D48/50		6.5 kV
Arc Resistance:	Condition A	D495	31 seconds
	D48/50		20 seconds
Comparative Track Index (CTI)		U.L. 746A	170 Volts
U.L HV Track Rate		U.L. 746A	12.6 mm/Min.
Permittivity, 1MHz:	Condition A	D150	5.71
	D24/23		6.01
Dissipation Factor, 1MHz:	Condition A	D150	0.0479
	D24/23		0.0525
Permittivity, 1KHz:	Condition A	D150	6.93
	D24/23		8.28
Dissipation Factor, 1KHz:	Condition A	D150	0.1108
	D24/23		0.1912
U.L. Hot Wire Ignition		U.L. 746A	120+ seconds
U.L. High Amp Ignition		U.L. 746A	200 + Exposure
U.L. temperature Index:	Electrical		140° C
	Mechanical		140° C

Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614  
and  
Addison, Illinois 60101 630-543-2880 Fax 630-543-1463

All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application.

[www.itenindustries.com](http://www.itenindustries.com)

*Imagineering With Plastics*

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