

# Iten Industries

## Resiten® 118P Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	24,700 psi
	Crosswise		17,400 psi
Flexural Strength:	Condition A Lengthwise	D790	27,600 psi
	Condition A Crosswise		22,200 psi
	D48/50 Lengthwise		22,700 psi
	D48/50 Crosswise		16,800 psi
Compressive Strength:	Lengthwise	D695	15,700 psi
	Crosswise		15,300 psi
Izod Impact (notched):	Condition A Lengthwise	D256	0.63 ft.lb./in.
	Condition A Crosswise		0.48 ft.lb./in.
	D48/50 Lengthwise		0.81 ft.lb./in.
	D48/50 Crosswise	D256	0.73 ft.lb./in.
	E48/50 Lengthwise		0.57 ft.lb./in.
	E48/50 Crosswise		0.48 ft.lb./in.
Water Absorption		D570	1.79% of weight
Specific Gravity		D792	1.37
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	371+ Vpm
Dielectric Breakdown:	Condition A	D149	66.2 kV
	D48/50		2.5 kV
Arc Resistance:	Condition A	D495	55 seconds
Comparative Track Index (CTI)		U.L. 746A	170 Volts
U.L HV Track Rate		U.L. 746A	3.5 mm/min
Permittivity, 1MHz:	Condition A	D150	5.42
	D24/23		5.86
Dissipation Factor, 1MHz:	Condition A	D150	0.0486
	D24/23		0.0667
Permittivity, 1KHz:	Condition A	D150	7.06
	D24/23		10.23
Dissipation Factor, 1KHz:	Condition A	D150	0.1368
	D24/23		0.5000
U.L. Hot Wire Ignition		U.L. 746A	19.8 seconds
U.L. High Amp Ignition		U.L. 746A	200+ 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"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614

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*

August 6, 2001