

Iten Industries

Resiten® 120FR Performance Values

<u>Properties</u>	<u>Test Conditions</u>	<u>ASTM</u>	Natural 120 FR	Black 120 FR
			<u>Values</u>	<u>Values</u>
Thickness			.125 inches	.125 inches
Tensile Strength:		Lengthwise D638	17,600 psi	16,000 psi
		Crosswise	11,200 psi	11,700 psi
Flexural Strength:	Condition A	Lengthwise D790	20,700 psi	22,800 psi
	Condition A	Crosswise	15,800 psi	16,500 psi
	D48/50	Lengthwise	14,100 psi	14,100 psi
	D48/50	Crosswise	9,600 psi	10,600 psi
Compressive Strength:		Lengthwise D695	11,800 psi	12,800 psi
		Crosswise	10,600 psi	10,500 psi
Izod Impact (notched):	Condition A	Lengthwise D256	.48 ft.lb./in.	.59 ft.lb./in.
	Condition A	Crosswise	.48 ft.lb./in.	.54 ft.lb./in.
	D48/50	Lengthwise	.81 ft.lb./in.	.97 ft.lb./in.
	D48/50	Crosswise D256	.74 ft.lb./in.	.89 ft.lb./in.
	E48/50	Lengthwise	.49 ft.lb./in.	.55 ft.lb./in.
	E48/50	Crosswise	.47 ft.lb./in.	.52 ft.lb./in.
Water Absorption		D570	1.75% of weight	1.81% of weight
Specific Gravity		D792	1.40	1.41
U.L. Subject 94		UL94	94VO	94VO
Dielectric Strength		D149	350+ Vpm	339 Vpm
Dielectric Breakdown:	Condition A	D149	87+ kV	82.5+ kV
	D48/50		2 kV	2 kV
Arc Resistance:	Condition A	D495	71 seconds	75 seconds
Comparative Track Index (CTI)		U.L. 746A	190 Volts	500+ Volts
Permittivity, 1MHz:	Condition A	D150	4.39	4.40
	D24/23		4.80	4.91
Dissipation Factor, 1MHz:	Condition A	D150	0.047	0.047
	D24/23		0.071	0.077
Permittivity, 1KHz:	Condition A	D150	5.41	5.43
	D24/23		9.44	11.36
Dissipation Factor, 1KHz:	Condition A	D150	0.0600	0.0620
	D24/23		0.0507	0.52
U.L. Hot Wire Ignition		U.L. 746A	300+ seconds	300+ seconds
U.L. High Amp Ignition		U.L. 746A	90 + Exposure	90 + Exposure
U.L. temperature Index:	Electrical		130° C	130° C
	Mechanical		130° C	130° C

Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"
 All values are average test results from typical production material. No warranty
 is implied or guaranteed and testing is recommended for each application.

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

Addison, Illinois 60101 630-543-2880 Fax 630-543-1463

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

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