

# Iten Industries

## Politen® G2FR10 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	11,900 psi
	Crosswise		9,900 psi
Flexural Strength:	Condition A Lengthwise	D790	26,100 psi
	Condition A Crosswise		19,200 psi
	D48/50 Lengthwise		23,000 psi
	D48/50 Crosswise		21,400 psi
Compressive Strength:	Lengthwise	D695	29,700 psi
	Crosswise		28,700 psi
Izod Impact (notched):	Condition A Lengthwise	D256	11.2 ft.lb./in.
	Condition A Crosswise		10.1 ft.lb./in.
	D48/50 Lengthwise		10.2 ft.lb./in.
	D48/50 Crosswise		9.2 ft.lb./in.
	E48/50 Lengthwise		11.9 ft.lb./in.
	E48/50 Crosswise		10.4 ft.lb./in.
Water Absorption		D570	.36% of weight
Specific Gravity		D792	1.84
U.L. Subject 94		UL94	V-0
Dielectric Strength		D149	484+ Vpm
Dielectric Breakdown:	Condition A	D149	80.6 Kv
	D48/50		36.5 Kv
Arc Resistance:	Condition A	D495	101 seconds
	D48/50		90 seconds
U.L HV Track Rate		U.L. 746A	5.6 mm/Min.
Permittivity, 1MHz:	Condition A	D150	3.92
	D24/23		4.00
Dissipation Factor, 1MHz:	Condition A	D150	0.0113
	D24/23		0.0206
Permittivity, 1KHz:	Condition A	D150	4.07
	D24/23		4.91
Dissipation Factor, 1KHz:	Condition A	D150	0.0096
	D24/23		0.1188
U.L. Hot Wire Ignition		U.L. 746A	34 seconds
U.L. High Amp Ignition		U.L. 746A	55 Exposure
U.L. temperature Index:	Electrical		105° C
	Mechanical		160° C

G2FR10 was formerly G1FR

Standard Sheet sizes are 36" x 72", 48" x 72", & 49" x 97"

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

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*

April 3, 2019