

# Iten Industries

## Politen® G3TR10 (GPO3) Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	12,000 psi
	Crosswise		8,300 psi
Flexural Strength:	Condition A Lengthwise	D790	25,700 psi
	Condition A Crosswise		17,600 psi
	D48/50 Lengthwise		24,300 psi
	D48/50 Crosswise		19,000 psi
Compressive Strength:	Lengthwise	D695	30,300 psi
	Crosswise		27,300 psi
Izod Impact (notched):	Condition A Lengthwise	D256	6.7 ft.lb./in.
	Condition A Crosswise		6.3 ft.lb./in.
	D48/50 Lengthwise		6.3 ft.lb./in.
	D48/50 Crosswise		6.0 ft.lb./in.
	E48/50 Lengthwise		7.1 ft.lb./in.
	E48/50 Crosswise		6.7 ft.lb./in.
Water Absorption		D570	.27% of weight
Specific Gravity		D792	1.76
U.L. Subject 94		UL94	V-0
Dielectric Strength		D149	307 Vpm
Dielectric Breakdown:	Condition A	D149	82.5 kV
	D48/50		39.0 kV
Arc Resistance:	Condition A	D495	156 seconds
	D48/50		137 seconds
Comparative Track Index (CTI)		U.L. 746A	500 Volts
U.L HV Track Rate		U.L. 746A	0 mm/Min.
Permittivity, 1MHz:	Condition A	D150	3.98
	D24/23		4.09
Dissipation Factor, 1MHz:	Condition A	D150	0.0130
	D24/23		0.0171
Permittivity, 1KHz:	Condition A	D150	4.17
	D24/23		4.38
Dissipation Factor, 1KHz:	Condition A	D150	0.0108
	D24/23		0.0186
U.L. Hot Wire Ignition		U.L. 746A	258 seconds
U.L. High Amp Ignition		U.L. 746A	200 + Exposure
U.L. temperature Index:	Electrical		105° C
	Mechanical		140° C

G3TR10 was formerly G2FR

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.

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

*Imagineering with Plastics*

April 3, 2019