

# Iten Industries, Inc.

## Politen® G3TR20 Performance Values

<u>Property</u>	<u>Test Condition</u>	<u>Test Method</u>	<u>Values @ 0.125" thickness</u>	
<b><u>PHYSICAL:</u></b>				
Tensile Strength:	Cond. A	Lengthwise	D-638	12,100 psi
		Crosswise		10,400 psi
Flexural Strength:	Cond. A	Lengthwise	D-790	26,600 psi
	Cond. A	Crosswise		22,500 psi
	Cond. D48/50	Lengthwise		22,900 psi
	Cond. D48/50	Crosswise		18,900 psi
Compressive Strength:	Cond. A	Lengthwise	D-695	23,800 psi
	Cond. A	Crosswise		23,100 psi
	Cond. A	Flatwise		>45,000 psi
Izod Impact (notched):	Cond. A	Lengthwise	D-256	10.5 ft.lb./in.
	Cond. A	Crosswise		10.5 ft.lb./in.
	Cond. D48/50	Lengthwise		10.8 ft.lb./in.
	Cond. D48/50	Crosswise		9.6 ft.lb./in.
	Cond. E48/50	Lengthwise		11.0 ft.lb./in.
	Cond. E48/50	Crosswise		10.0 ft.lb./in.
Water Absorption:	Cond. D24/23		D-570	.23% of weight
Specific Gravity:	Cond. A		D-792	1.74
<b><u>FLAMMABILITY/THERMAL:</u></b>				
Flammability:			UL-94	V0
Comparative Track Index: (CTI)			UL 746A	500+ Volts
High Voltage arc Tracking Rate: (HVTR)			UL 746A	0.4 mm/Min.
Hot Wire Ignition: (HWI)			UL 746A	300+ seconds
High-current Arc Ignition: (HAI)			UL 746A	200+ Exposures
Relative Temperature Index: (RTI)		Electrical	UL 746B	105°C
		Mechanical	UL 746B	140°C
<b><u>ELECTRICAL:</u></b>				
Dielectric Strength:	In Air		D-149	322 Vpm
Dielectric Breakdown:	Cond. A		D-149	80 + kV
	Cond. D48/50			32 kV
Arc Resistance:	Cond. A		D-495	179 seconds
	Cond. D48/50			175 seconds
Permittivity, 1MHz:	Cond. A		D-150	4.02
	Cond. D24/23			4.25
Dissipation Factor, 1MHz:	Cond. A		D-150	0.014
	Cond. D24/23			0.026
Permittivity, 1KHz:	Cond. A		D-150	4.29
	Cond. D24/23			4.81
Dissipation Factor, 1KHz:	Cond. A		D-150	0.016
	Cond. D24/23			0.041
Permittivity, 60Hz:	Cond. A		D-150	4.47
	Cond. D24/23			5.28
Dissipation Factor, 60Hz:	Cond. A		D-150	0.023
	Cond. D24/23			0.083

Politen® G3TR20 (formerly G1TR) meets NEMA specifications for GPO 3

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

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

Addison, Illinois 60101 630-543-2820 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)

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