

Iten Industries, Inc.

Politen® G3TR20 Performance Values

<u>Property</u>	<u>Test Condition</u>	<u>Test Method</u>	<u>Values @ 0.125" thickness</u>	
<u>PHYSICAL:</u>				
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
<u>FLAMMABILITY/THERMAL:</u>				
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
<u>ELECTRICAL:</u>				
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

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

Imagineering with Plastics

April 3, 2019