

# Iten Industries

## Politen® G2FR05 (GPO2) Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	
Thickness			.125 inches	
Tensile Strength:		Lengthwise	D638	12,900 psi
		Crosswise		9,300 psi
Flexural Strength:	Condition A	Lengthwise	D790	26,800 psi
	Condition A	Crosswise		22,200 psi
	D48/50	Lengthwise		26,800 psi
	D48/50	Crosswise		22,100 psi
Compressive Strength:		Lengthwise	D695	30,600 psi
		Crosswise		24,800 psi
Izod Impact (notched):	Condition A	Lengthwise	D256	8.6 ft.lb./in.
	Condition A	Crosswise		8.6 ft.lb./in.
	D48/50	Lengthwise		8.1 ft.lb./in.
	D48/50	Crosswise	D256	7.5 ft.lb./in.
	E48/50	Lengthwise		9.3 ft.lb./in.
	E48/50	Crosswise		8.3 ft.lb./in.
Water Absorption			D570	.12% of weight
Specific Gravity			D792	1.81
U.L. Subject 94			UL94	V-0
Dielectric Strength			D149	333 Vpm
Dielectric Breakdown:	Condition A		D149	89.6 kV
	D48/50			40.0 kV
Arc Resistance:	Condition A		D495	146 seconds
	D48/50			137 seconds
Permittivity, 1MHz:	Condition A		D150	4.00
	D24/23			3.97
Dissipation Factor, 1MHz:	Condition A		D150	0.0145
	D24/23			0.0162
Permittivity, 1KHz:	Condition A		D150	4.19
	D24/23			4.32
Dissipation Factor, 1KHz:	Condition A		D150	0.0127
	D24/23			0.0213
U.L. temperature Index:		Electrical		130° C
		Mechanical		160° C

G2FR05 (formerly GE3FR) meets NEMA specifications for GPO 2

Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"

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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)

Imageneering with Plastics

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