

# Politen® G2FR10

Polyester Alloy

ITEN INDUSTRIES

Message:

POLITEN® Glass Polyester Sheets are formulated for superior electrical, thermal and mechanical properties.

POLITEN® sheets are used in many applications including the electrical/electronic, marine, automotive and appliance markets. With over 30 years experience in the formulating and the manufacturing of POLITEN® sheets, Iten Industries can offer a high degree of quality, cost effectiveness and engineering services for material and part design.

POLITEN® sheets are formulated and manufactured from fiberglass reinforced thermoset polyester resins. Many grades are recognized by Underwriters Laboratories Inc.® and are formulated to meet NEMA, GPO1, GPO2 and GPO3 specifications. Testing to ASTM, ANSI, Military, NEMA and customer specifications are performed in Iten's laboratories.

POLITEN® sheets are manufactured in many colors and are available in up to 6" thick. Standard sizes are 3' x 6', 4' x 6' and 4' x 8'. Custom sheet sizes, strips and blocks are also available upon request.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Electrical Properties		
	Good Thermal Stability		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Marine Applications		
	Sheet		
Agency Ratings	ANSI Unspecified Rating		
	EC 1907/2006 (REACH)		
	NEMA GPO-1		
	NEMA GPO-2		
	NEMA GPO-3		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
Forms	Sheet		
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (In Oil)	19	kV/mm	ASTM D149
Relative Permittivity			
1 MHz <sup>1</sup>	4.00		IEC 60250
1 MHz <sup>2</sup>	3.92		ASTM D150
Dissipation Factor			ASTM D150
1 MHz <sup>3</sup>	0.21		
1 MHz <sup>4</sup>	0.011		

Arc Resistance			ASTM D495
-- 5	101	sec	
-- 6	101	sec	
Dielectric Breakdown			ASTM D149
-- 7	36500	V	
-- 8	80600	V	
NOTE			
1.	D24/23		
2.	Condition A		
3.	D24/23		
4.	Condition A		
5.	D48/50		
6.	Condition A		
7.	D48/50		
8.	Condition A		

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#### Recommended distributors for this material

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