

Politen® G2HC10

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	
Mechanical	Nominal Value	Unit
Tensile Strength ¹		
Across Flow : Yield	43.6	MPa
Flow : Yield	58.4	MPa
Flexural Strength		
-- ²	137	MPa
-- ³	182	MPa
Compressive Strength		

-- 4	61.6	MPa	
-- 5	67.5	MPa	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (In Oil)	11	kV/mm	ASTM D149
Relative Permittivity			
1 MHz ⁶	3.82		IEC 60250
1 MHz ⁷	3.71		ASTM D150
Dissipation Factor			ASTM D150
1 MHz ⁸	0.026		
1 MHz ⁹	0.015		
Arc Resistance			ASTM D495
-- 10	157	sec	
-- 11	158	sec	
Dielectric Breakdown			ASTM D149
-- 12	43800	V	
-- 13	80800	V	

NOTE			
1.	Condition A		
2.	Across Flow, Condition A		
3.	Flow, Condition A		
4.	Across Flow, Condition A		
5.	Flow, Condition A		
6.	D24/23		
7.	Condition A		
8.	D24/23		
9.	Condition A		
10.	D48/50		
11.	Condition A		
12.	D48/50		
13.	Condition A		

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WECHAT