

Politen® G3LS10

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
Flexural Strength		
6.35 mm ¹	211	MPa
6.35 mm ²	242	MPa
Compressive Strength		
6.35 mm ³	224	MPa
6.35 mm ⁴	230	MPa
Impact	Nominal Value	Unit

Notched Izod Impact ⁵			
Across Flow : 6.35 mm	560	J/m	
Flow : 6.35 mm	580	J/m	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (In Oil)	14	kV/mm	ASTM D149
Arc Resistance			ASTM D495
-- ⁶	186	sec	
-- ⁷	189	sec	
Dielectric Breakdown			ASTM D149
-- ⁸	25000	V	
-- ⁹	87000	V	

NOTE	
1.	Across Flow, Condition A
2.	Flow, Condition A
3.	Across Flow, Condition A
4.	Flow, Condition A
5.	E48/50
6.	D48/50
7.	Condition A
8.	D48/50
9.	Condition A

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WECHAT