Politen® ESP185

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	99.3	MPa			
Flow : Yield	113	MPa			
Flexural Strength					
²	210	MPa			
3	222	MPa			
Compressive Strength					

4	152	МРа		
5	183	MPa		
Impact	Nominal Value	Unit		
Notched Izod Impact ⁶				
Across Flow	970	J/m		
Flow	1000	J/m		
Electrical	Nominal Value	Unit	Test Method	
Dielectric Strength (In Oil)	17	kV/mm	ASTM D149	
Relative Permittivity				
1 MHz ⁷	4.40		IEC 60250	
1 MHz ⁸	4.02		ASTM D150	
Dissipation Factor			ASTM D150	
1 MHz ⁹	0.048			
1 MHz ¹⁰	0.020			
Arc Resistance			ASTM D495	
11	132	sec		
12	136	sec		
Dielectric Breakdown			ASTM D149	
13	13000	V		
14	63000	V		
NOTE				
1.	Condition A			
2.	Across Flow, Condition A			
3.	Flow, Condition A			
4.	Across Flow, Condition A			
5.	Flow, Condition A			
6.	E48/50			
7.	D24/23			
8.	Condition A			
9.	D24/23			
10.	Condition A			
11.	D48/50			
12.	Condition A			
13.	D48/50			
14.	Condition A			

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Recommended distributors for this material

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