

Acculam™ Siliglas G7

Silicone

Accurate Plastics, Inc.

Message:

Acculam® Siliglas G7 - Laminate sheet comprised of a high performance silicone resin and a woven fiberglass substrate. It qualifies to NEMA G-7 and MIL-I-24768/17.

This material has high heat resistance, low dissipation factor, and excellent arc resistance. It is flame resistant with low smoke evolution, and meets the needs of Class "H" insulation. It is used in high frequency telecom equipment, transformers and items subjected to high heat.

General Information			
Filler / Reinforcement	Glass Fiber,7.0% Filler by Weight		
Features	Arc Resistant		
	Flame Retardant		
	High Heat Resistance		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
	Insulation		
	Laminates		
	Sheet		
	Telecommunications		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Water Absorption (24 hr, 3.18 mm)	< 0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength			ASTM D790
3.18 mm ¹	> 152	MPa	
3.18 mm ²	> 172	MPa	
Compressive Strength ³	324	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-- ⁴	> 430	J/m	
-- ⁵	> 530	J/m	
Thermal	Nominal Value	Unit	
Temperature Index	220	°C	
Dielectric Breakdown			
-- ⁶	> 30000	V	

A	> 50000	V	
Bond Strength	> 320000	g	
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity ⁷	4.00		IEC 60250
Dissipation Factor			ASTM D150
-- ⁸	0.020		
-- ⁹	3.0E-3		
Arc Resistance	180	sec	ASTM D495
NOTE			
1.	CW-A		
2.	LW-A		
3.	Flatwise		
4.	CW		
5.	LW		
6.	D48/50		
7.	A		
8.	D24/23		
9.	A		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

