

Acculam™ Epoxyglas G11/FR5

Epoxy; Epoxide
Accurate Plastics, Inc.

Message:

Acculam® Epoxyglas G11/ FR5 -Laminate sheet comprised of flame retardant/heat resistant epoxy resin and a woven fiberglass substrate. It qualifies to NEMA FR5 and MIL-I-24678/28.
This material exhibits extremely high mechanical strength at elevated temperatures. It shows good dielectric loss and electric strength properties under both dry and humid conditions. It has good chemical resistance and low moisture absorption.

General Information			
Filler / Reinforcement	Glass Fiber, 11% Filler by Weight		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Electrical Properties		
	High Heat Resistance		
	High Temperature Strength		
	Low Moisture Absorption		
Uses	Laminates		
	Sheet		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792
Water Absorption (24 hr, 3.18 mm)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength			ASTM D790
-- ¹	> 276	MPa	
3.18 mm ²	> 517	MPa	
Compressive Strength ³	> 448	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	180	°C	
Dielectric Breakdown			
-- ⁶	> 50000	V	
A	> 50000	V	

Bond Strength	> 1.0E+6	g	
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity ⁷	4.80		IEC 60250
Dissipation Factor			ASTM D150
-- ⁸	0.018		
-- ⁹	0.017		

NOTE			
1.	LW-E 1/150		
2.	LW-A		
3.	Flatwise		
4.	CW		
5.	LW		
6.	D48/50		
7.	D24/23		
8.	D24/23		
9.	A		

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