

# Acculam™ Epoxyglas G10/FR4

Epoxy; Epoxide  
Accurate Plastics, Inc.

Message:

Acculam® Epoxyglas G10/ FR4, is a laminate sheet comprised of a flame retardant epoxy resin and a woven fiberglass substrate. This grade qualifies to NEMA FR4 and MIL-I-24768/27.

This material has high mechanical strength and excellent electrical insulating qualities in both dry and humid conditions. These attributes along with good fabricating characteristics allow this grade to be used in a wide variety of electrical and mechanical applications.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Electrically Insulating		
	Flame Retardant		
	Good Processability		
	High Strength		
Uses	Electrical/Electronic Applications		
	Laminates		
	Sheet		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr, 3.18 mm)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength			ASTM D790
3.18 mm <sup>1</sup>	> 345	MPa	
3.18 mm <sup>2</sup>	> 448	MPa	
Compressive Strength <sup>3</sup>	> 415	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-- <sup>4</sup>	> 430	J/m	
-- <sup>5</sup>	> 530	J/m	
Thermal	Nominal Value	Unit	
Temperature Index	140	°C	
Dielectric Breakdown			
-- <sup>6</sup>	> 50000	V	
A	> 50000	V	
Bond Strength	> 1.0E+6	g	

Electrical	Nominal Value	Unit	Test Method
Relative Permittivity <sup>7</sup>	4.80		IEC 60250
Dissipation Factor			ASTM D150
-- <sup>8</sup>	0.018		
-- <sup>9</sup>	0.017		

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

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#### Recommended distributors for this material

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