

Acculam™ Epoxyglas G10/FR4

Epoxy; Epoxide

Accurate Plastics, Inc.

PROSPECTOR®

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Technical Data

Product Description

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

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
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 ³	ASTM D792
Water Absorption (24 hr, 3.18 mm)	< 0.10 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Flexural Strength		ASTM D790
3.18 mm ³	> 345 MPa	
3.18 mm ⁴	> 448 MPa	
Compressive Strength ⁵	> 415 MPa	ASTM D695
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
-- ⁶	> 430 J/m	
-- ⁷	> 530 J/m	
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	110	ASTM D785
Thermal	Nominal Value Unit	Test Method
Temperature Index	140 °C	
Electrical	Nominal Value Unit	Test Method
Relative Permittivity ⁸	4.80	IEC 60250
Dissipation Factor		ASTM D150
-- ⁸	0.018	
-- ⁹	0.017	
Dielectric Breakdown		
-- ¹⁰	> 50000 V	
A	> 50000 V	
Additional Information	Nominal Value Unit	Test Method
Bond Strength	> 1.0E+6 g	



Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ CW-A

⁴ LW-A

⁵ Flatwise

⁶ CW

⁷ LW

⁸ D24/23

⁹ A

¹⁰ D48/50



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Where to Buy

Supplier

Accurate Plastics, Inc.

Yonkers, NY USA

Telephone: 800-431-2274

Web: <http://www.accum.com/>

Distributor

Please contact the supplier to find a distributor for Acculam™ Epoxyglas G10/FR4

