



Acculam[®] Epoxyglas G10, FR4 Product Data Sheet

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

Typical Applications

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.

Typical Properties

Physical Data

	<u>Typical Value</u>	<u>Units</u>
Specific Gravity	1.85	
Water Absorption-.125"	< 0.1	%
Temperature Index	140 \ 284	°C \ °F
Rockwell Hardness	110	M scale
Bond Strength	> 2,200 \ 1,000	LBS \ kgs
Flexural Strength-LW-A-.125"	> 90,000 \ 621	PSI \ MPa
Flexural Strength-CW-A-.125"	> 65,000 \ 448	PSI \ MPa
Izod Impact Strength-LW	> 12	ft-lbs/in
Izod Impact Strength-CW	> 9	ft-lbs/in
Compressive Strength-Flatwise	> 75,000 \ 518	PSI \ MPa
Flame Resistance	94 VO	

Electrical Data

	<u>Typical Value</u>	<u>Units</u>
Dielectric Breakdown-A	> 60	kV
Dielectric Breakdown-D48/50	> 55	kV
Permittivity-A	4.8	
Permativity-D24/23	4.8	
Dissipation Factor-A	0.017	
Dissipation Factor-D24/23	0.018	

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