

Acculam[®] Epoxyglas G11/ FR5 Product Data Sheet

Product Description

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.

Typical Applications

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.

Typical Properties

Physical Data

	<u>Typical Value</u>	<u>Units</u>
Specific Gravity/Density	1.85	g/cm ³
Water Absorption -.125"	< .10	%
Temperature Index	180 \ 356	°C \ °F
Rockwell Hardness	115	M scale
Bond Strength	> 2,200 \ 1,000	lbs \ kgs
Flexural Strength-LW-A-.125"	> 75,000 \ 520	PSI \ MPa
Flexural Strength-LW-E 1/150	> 40,000 \ 280	PSI \ MPa
Izod Impact Strength-LW	> 10	ft-lbs/in
Izod Impact Strength-CW	> 8	ft-lbs/in
Compressive Strength-Flatwise	> 65,000 \ 448	PSI \ MPa

Electrical Data

Dielectric Breakdown-A	> 50	kV
Dielectric Breakdown-D48/50	> 50	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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