



American Epoxy Epoxyglas G11, FR5 Product Data Sheet

Product Description

American Epoxy 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-24768/28

Typical Applications

G11/FR5 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 Values</u>	<u>Units</u>
Specific Gravity	1.85	
Water Absorption-.125"	< 0.1	%
Temperature Index	180 \ 356	°C \ °F
Rockwell Hardness	115	M scale
Bond Strength	> 2,000 \ 900	LBS \ kgs
Flexural Strength-LW-A-.125"	> 80,000 \ 550	PSI \ MPa
Flexural Strength-LW-E 1/150	> 30,000 \ 220	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
Flame Resistance	94 VO	

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	

American Epoxy provides this data as information only and does not imply any warranty for its use or application.

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