



Acculam® Epoxyglas G11 nonFR Product Data Sheet

Product Description

Acculam® Epoxyglas G11 nonFR -Laminate sheet comprised of heat resistant/halogen free epoxy resin and a woven fiberglass substrate. It qualifies to NEMA G11 and MIL-I-24768/3

Typical Applications

This material exhibits extremely high mechanical strength at elevated temperatures and has good dielectric loss and electric strength properties under both dry and humid conditions. It is resistant to flow, dimensional change, chemicals and has low moisture absorption.

Typical Properties

Physical Data

| | <u>Typical Value</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 | > 2,200 \ 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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