

Acculam[®] Epoxyglas G10 non FR Product Data Sheet

Product Description

Acculam[®] Epoxyglas G10 nonFR - Laminate sheet comprised of a halogen free epoxy resin binder and a woven fiberglass substrate. It qualifies to NEMA G10 and MIL-I-24768/2.

Typical Applications

This material exhibits high mechanical strength and electrical insulating qualities under both dry and humid conditions. Its ease of fabrication allows its use in many structural and cryogenic applications where halogenated compounds may be undesirable..

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" | > 65,000 \ 448 | PSI \ MPa |
| Flexural Strength-CW-A-.125" | > 50,000 \ 345 | PSI \ MPa |
| Izod Impact Strength-LW | > 10 | ft-lbs/in |
| Izod Impact Strength-CW | > 8 | ft-lbs/in |
| Compressive Strength-Flatwise | > 60,000 \ 415 | 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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