



Acculam[®] Siliglas G7 Product Data Sheet

Product Description

Acculam[®] Siliglas G7 - Laminate sheet comprised of a high performance silicone resin and a woven fiberglass substrate. It qualifies to NEMA G-7 and MIL-I-24768/17.

Typical Applications

This material has high heat resistance, low dissipation factor, and excellent arc resistance. It is flame resistant with low smoke evolution, and meets the needs of Class "H" insulation. It is used in high frequency telecom equipment, transformers and items subjected to high heat.

Typical Properties

Physical Data

| | <u>Typical Value</u> | <u>Units</u> |
|-------------------------------|-----------------------------|---------------------|
| Specific Gravity/Density | 1.75 | g/cm ³ |
| Water Absorption -.125" | < .35 | % |
| Temperature Index | 220 \ 428 | °C \ °F |
| Rockwell Hardness | 100 | M scale |
| Bond Strength | > 700 \ 320 | lbs \ kgs |
| Flexural Strength-LW-A-.125" | > 25,000 \ 173 | PSI \ MPa |
| Flexural Strength-CW-A-.125" | > 22,000 \ 152 | PSI \ MPa |
| Izod Impact Strength-LW | > 10 | ft-lbs/in |
| Izod Impact Strength-CW | > 8 | ft-lbs/in |
| Compressive Strength-Flatwise | > 47,000 \ 324 | PSI \ MPa |

Electrical Data

| | | |
|-----------------------------|-------|-----|
| Dielectric Breakdown-A | > 50 | kV |
| Dielectric Breakdown-D48/50 | > 30 | kV |
| Permittivity-A | < 4.0 | |
| Arc Resistance-A | 180 | SEC |
| Dissipation Factor-A | 0.003 | |
| Dissipation Factor-D24/23 | 0.020 | |

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