



Acculam[®] Phenolglas G3 Product Data Sheet

Product Description

Acculam[®] Phenolglas G3 - Laminate sheet comprised of a high temperature phenolic resin binder and a woven fiberglass substrate. It qualifies to NEMA G-3 and MIL-I-24768/18.

Typical Applications

This material has good heat resistance, high mechanical strength and low thermal expansion. It finds applications in motor slot insulation, valve plates, and other applications requiring good thermal insulation characteristics.

Typical Properties

Typical Value

Units

Physical Data

Specific Gravity/Density	1.85	g/cm ³
Water Absorption -.125"	< 2.0	%
Temperature Index	170 \ 338	°C \ °F
Rockwell Hardness	100	M scale
Bond Strength	> 850 \ 386	lbs \ kgs
Flexural Strength-LW-A-.125"	> 40,000 \ 276	PSI \ MPa
Flexural Strength-CW-A-.125"	> 30,000 \ 207	PSI \ MPa
Izod Impact Strength-LW	> 9	ft-lbs/in
Izod Impact Strength-CW	> 7	ft-lbs/in
Compressive Strength-Flatwise	> 50,000 \ 345	PSI \ MPa

Electrical Data

Dielectric Breakdown-A	> 50	kV
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