

# BGM International

## BGM501Data Sheet

BGM501 is made from glass fiber cloth with high temperature polyimide resin system designed for H class applications.

### Typical Properties

General Physical Properties	Units	Value	Thickness Tested (in)
Specific Gravity		1.85	0.197
Flexural Strength CW @ room temperature	psi	≥ 49,314	0.197
Flexural Strength CW @ 180±5 °C	psi	≥34,520	0.197
Flexural Strength LW @ room temperature	psi	≥ 58,016	0.197
Flexural Strength LW @ 180±5 °C	psi.	≥40,612	0.197
Impact Strength LW, parallel to lamination (charpy)	KJ/m <sup>2</sup>	≥70	0.197
Impact Strength CW, parallel to lamination (charpy)	KJ/m <sup>2</sup>	≥50	0.197
Tensile Strength LW	psi	≥46,413	0.197
Tensile Strength CW	psi	≥29,008	0.197
Compressive Strength	psi	≥58,016	0.394
Bond Strength	lb	≥1,304	0.394
Moisture Absorption	%	0.20	0.197
Maximum Continuous Operating Temperature	°C	180	0.197
Flammability Rating (FH method)	Class	FH2-40 mm	0.059
Breakdown Voltage, perpendicular to lamination	KV	≥50	0.197
Electric Strength, perpendicular to lamination)	MV/m	≥10	0.197
Dissipation Factor, 50 Hz		≤0.05	0.059
Permittivity, 50 Hz		≤5.5	0.059

THE INFORMATION ON BGM501 IS BELIEVED TO BE ACCURATE AND BASED ON RELIABLE ANALYTICAL METHODS. IT IS FOR INFORMATIONAL PURPOSE ONLY.