



American Epoxy Siliglas G7 Product Data Sheet

Product Description

American Epoxy 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 Properties</u>	<u>Typical Values</u>	<u>Units</u>
Specific Gravity	1.75	
Water Absorption-.125”	< 0.35	%
Temperature Index	220 \ 428	°C \ °F
Rockwell Hardness	100	M scale
Bond Strength	> 700 \ 320	LBS \ kgs
Flexural Strength-LW-A-.125”	> 24,000 \ 166	PSI \ MPa
Flexural Strength-CW-A-.125”	> 18,000 \ 124	PSI \ MPa
Izod Impact Strength-LW	> 10	ft-lbs/in
Izod Impact Strength-CW	> 8	ft-lbs/in
Compressive Strength-Flatwise	> 45,000 \ 310	PSI \ MPa

Electrical Data

Dielectric Breakdown-A	> 50	KV
Dielectric Breakdown-D48/50	> 40	KV
Permittivity-A	< 4.0	
Permativity-D24/23	> 180	SEC
Dissipation Factor-A	0.003	
Dissipation Factor-D24/23	0.020	

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

American Epoxy & Metal, Inc.
45 Prospect Street
Yonkers, NY. 10701

Phone: 914-963-5900, Fax: 914-226-8796
Website: <http://www.americanepoxy.com>
E-mail: info@americanepoxy.com