



Phenolic G-Series

Glass epoxy, laminated sheets

	GLASS MELAMINE G-9	GLASS EPOXY G-10/FR4	GLASS EPOXY G-11	GLASS SILICONE G-7
SPECIFIC GRAVITY	1.85	1.85	1.82	1.78
TENSILE STRENGTH (psi)	39,000	38,000	37,000	18,000
COMP. STRENGTH(psi)	70,000	66,000	63,000	45,000
FLEXURAL STRENGTH (psi)	55,000	60,000	75,000	25,000
HARDNESS, M SCALE	115	115	112	105
BOND STRENGTH(psi)	1900	2300	2200	900
SHEAR STRENGTH(psi)	18,000	21,500	22,000	17,000
DISSIPATION FACTOR 10⁶ cycles, Cond A	.015	.032	.020	.003
DIELECTRIC CONSTANT 10⁶ cycles, Cond A	7.0	4.8	5.0	4.2
ELECTRIC STRENGTH V/MIL Cond A	450	800	900	400
FLAMMABILITY RATING	94V-O	94V-O	94HB	94V-O
MAX OPER. TEMP °C	140	140	180	220
COEFF. THERMAL EXP. IN/IN/°C X 10-5	.60	.10	.20	.20
WATER ABSORPTION % - 24 hrs	.60	.10	1.1	1.0
MILITARY/FED SPEC	Mil-I-24768/1 Type GME	Mil-I- 24768/27 Type GEE-F	Mil-I- 24768/3 Type GEB	Mil-I- 24768/17 Type GSG



All values given are average based on test samples. The performance characteristics attributed to the products described herein are based on assumptions of general and reasonable use. As results cannot be predicted or guaranteed for any specific set of conditions, each user should make their own determination of these products suitability for their particular application.