

ATLAS FIBRE COMPANY - MATERIAL SPECIFICATIONS

TYPICAL VALUES

	PAPER PHENOLIC XXX	CANVAS PHENOLIC CE	LINEN PHENOLIC LE	ROLLED/ MOLDED PHENOLIC L	GLASS MELAMINE G - 9	GLASS EPOXY G - 10/FR4	GLASS EPOXY G - 11	GLASS SILICONE G - 7	NYLON PHENOLIC N - 1
SPECIFIC GRAVITY	1.38	1.37	1.34	1.35	1.85	1.85	1.82	1.78	1.25
TENSILE STRENGTH(psi)	13,000	10,000	13,000	12,000	39,000	38,000	37,000	18,000	8,000
COMP. STRENGTH(psi)	35,000	36,000	36,000	19,000	70,000	66,000	63,000	45,000	25,000
FLEXURAL STRENGTH(psi)	22,000	17,000	18,000	16,000	55,000	60,000	75,000	25,000	11,000
HARDNESS, M SCALE	101	100	100	105	115	115	112	105	90
BOND STRENGTH(psi)	1200	1900	1900	1600	1900	2300	2200	900	1800
SHEAR STRENGTH(psi)	12,800	14,000	13,500	N/A	18,000	21,500	22,000	17,000	14,000
DISSIPATION FACTOR 10 ⁶ cycles, Cond A	.035	N/A	.065	N/A	.015	.032	.020	.003	.035
DIELECTRIC CONSTANT 10 ⁶ cycles, Cond A	5.1	5.5	5.7	N/A	7.0	4.8	5.0	4.2	4.9
ELECTRIC STRENGTH V/MIL Cond A	700	550	625	N/A	450	800	900	400	650
FLAMMABILITY RATING	94HB	94HB	94HB	94HB	94V-O	94V-O	94HB	94V-O	94HB
MAX OPER. TEMP °C	140	125	125	125	140	140	180	220	105
COEFF. THERMAL EXP. IN/IN/°C X 10 ⁻³	1.5	2.0	1.8	1.8	1.5	1.0	1.1	1.0	9.5
WATER ABSORPTION % - 24 hrs	.57	2.0	1.9	1.5	.6	.10	.20	.2	.30
MILITARY/FED SPEC	Mil-I- 24768/10 Type PBE	Mil-I- 24768/14 Type FBG	Mil-I- 24768/13 Type FBE	Mil-I- 24768/15 Type FBI	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	Mil-I- 24768/9 Type NPG

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.