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Material Specifications Data Sheet

	PAPER PHENOLIC XX	PAPER PHENOLIC XXX	CANVAS PHENOLIC C	CANVAS PHENOLIC CE	LINEN PHENOLIC L	LINEN PHENOLIC LE	GLASS PHENOLIC G3	GLASS MELAMINE G-9	GLASS EPOXY G-10/FR4	GLASS EPOXY G-11	GLASS SILICONE G-7
MILITARY/FED SPEC	Mil-I-24768/11 Type PBG	Mil-I-24768/10 Type PBE	Mil-I-24768/16 Type FBM	Mil-I-24768/14 Type FBG	Mil-I-24768/15 Type FBI	Mil-I-24768/13 Type FBE	Mil-I-24768/18 Type GPG	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
SPECIFIC GRAVITY	1.35	1.38	1.35	1.37	1.34	1.34	1.85	1.85	1.85	1.82	1.78
TENSILE STRENGTH (psi)	17,000	13,000	11,200	10,000	14,000	13,000	42,000	39,000	38,000	37,000	18,000
COMP. STRENGTH (psi)	35,000	35,000	37,000	36,000	35,000	36,000	76,000	70,000	66,000	63,000	45,000
FLEXURAL STRENGTH (psi)	34,000	22,000	22,000	17,000	23,000	18,000	55,000	55,000	60,000	75,000	25,000
HARDNESS, M SCALE	120	101	103	100	105	100	110	115	115	112	105
BOND STRENGTH (psi)	1500	1200	2,000	1900	1,700	1900	1,500	1900	2300	2200	900
SHEAR STRENGTH (psi)	11,500	12,800	14,000	14,000	13,500	13,500	18,000	18,000	21,500	22,000	17,000
DISSIPATION FACTOR 10^6cycles, Cond A	0.040	0.035	-	0.048	-	0.065	0.023	0.015	0.032	0.020	0.003
DIELECTRIC CONSTANT 10^6 cycles, Cond A	5.30	5.10	-	5.50	-	5.70	7.30	7.00	4.80	5.00	4.20
ELECTRIC STRENGTH V/MIL Cond A	750	700	-	550	-	625	600	450	800	900	400
FLAMMABILITY RATING	94HB	94HB	94HB	94HB	94HB	94HB	94HB	94V-O	94V-O	94HB	94V-O
MAX OPER. TEMP ºC	140	140	125	125	125	125	140	140	140	180	220
COEFF. THERMAL EXP. IN/IN/ºC X 10-5	1.20	1.50	1.10	2.00	1.04	1.80	15.00	1.50	1.00	1.10	1.00
WATER ABSORBTION % - 24 hrs	2.00	0.57	1.60	2.00	1.40	1.90	2.00	0.60	0.10	0.20	0.20

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. 08/2014