



CROSSNAIL LAMINATES

G10 FR4 SPECIFICATIONS MIL I 2468/27

PROPERTY DATA	AREA OF TEST	RESULT
TENSILE	LENGTH-WISE	40,000 PSI
	CROSS-WISE	35,000 PSI
COMPRESSIVE STRENGTH	FLAT-WISE	60,000 PSI
	EDGE-WISE	35,000 PSI
FLEX STRENGTH	CROSS-WISE	45,000 PSI
	LENGTH-WISE	55,000 PSI
MODULUS OF ELASTICITY IN FLEX SHEAR STRENGTH	LENGTH-WISE	2,700,000
	CROSS-WISE	2,200,000
		19000 PSI
IZOD IMPACT ROCKWELL HARDNESS	NOTCH	7
	NOTCH	5.5
		(M) 110
SPECIFIC GRAVITY		1.82
WATER ABSORPTION	.062 " THICK	.25 % OVER 24 HOURS
	.125 " THICK	.15% OVER 24 HOURS
	.500 " THICK	.10 % OVER 24 HOURS
DIELECTRIC CONSTANT	.062 " THICK	500 VOLTS PER MIL
	.125 " THICK	400 VOLTS PER MIL
DISSIPATION FACTOR	CONDITION A	.025 MEGACYCLE
INSULATION RESISTANCE	96 HOURS AT 90% RELATIVE HUMIDITY	200000 MEGA OHMS
FLAME RATING	UNDERWATER LABS	UL94V-0
OPERATING TEMPERATURE	CONTINUOUS	285°F TO 210 ° KELVIN
COEFFICIENT of THERMAL EXPANSION	CM/CM/DEG C X -5	0.9
BOND STRENGTH	GREATER THAN 2,500 LBS	