

Properties	NEMA grade reinforcement~ resin binder	G-10/FR4 glass~ epoxies
Tensile Strength		
	lengthwise, PSI	40,000
	crosswise, PSI	35,000
Compressive Strength		
	flatwise, PSI	60,000
	edgewise, PSI	35,000
Flexural Strength		
	lengthwise, PSI	55,000
	crosswise, PSI	45,000
Properties	NEMA grade reinforcement~ resin binder	FR4 glass~ epoxies
Modulus of Elasticity in flex		
	lengthwise, PSI x 10 ⁶	2.7
	crosswise, PSI x 10 ⁶	2.2
Shear Strength, PSI		19,000
IZOD Impact		
	flatwise, ft lb per inch of notch	7
	edgewise, ft lb per inch of notch	5.5
Rockwell Hardness M scale		110
Specific Gravity		1.82

Coefficient of Thermal Expansion		
cm/cm/ deg C x 10 ⁻⁵		.9
Properties	NEMA grade reinforcement~ resin binder	FR4 glass~ epoxies
Water Absorption		
.062" thick, % per 24 hrs		0.25
.125" thick, % per 24 hrs		0.15
.500" thick, % per 24 hrs		0.10
Dielectric Strength, volt/mil		
perpendicular to laminations; short		
.062" thick		500
.125" thick		400
Dissipation Factor		
condition A, 1 megacycle		0.025
Dielectric Constant		
condition A, 1 megacycle		5.2
Properties	NEMA grade reinforcement~ resin binder	FR4 glass~ epoxies
Insulation Resistance		
Condition: 96 hours at 90% relative humidity (in mega ohms)		200,000
Flame Resistance		
Underwriter Labs, Classification		94V-0
Bond Strength, in lbs		2,000

Max Continuous Operating Temperature	
Approximate degrees F	285
Sheet Mil Spec: Mil-I-24768 / __	27
Types	GEE-F