



NP502A

TECHNICAL DATA BULLETIN

DESCRIPTION: NP502A is a composite material of woven glass fabric and a brominated epoxy resin system. It is engineered to provide ASTM D709 Type IV FR-4 properties.

TYPICAL PROPERTIES

TYPICAL PROPERTIES		UNITS	TYPICAL VALUE	TESTING STANDARD
PHYSICAL PROPERTIES				
Specific Gravity		g/cm ³	1.97	ASTM D792
Water Absorption		%	0.01	ASTM D570
Mechanical PROPERTIES				
Flexural Strength	LW	psi	70000	ASTM D790
	CW	psi	63000	
Izod Impact Strength	LW	ft-lb/in	14	ASTM D256
	CW	ft-lb/in	13	
Bonding Strength D48/50		lb	1750	ASTM D229 Condition A
			1700	ASTM D229 D48/50
THERMAL PROPERTIES				
Flammability(above 1/16")		unitless	V-0	UL Bulletin 94
ELECTRICAL PROPERTIES				
Breakdown Voltage		kV	70	ASTM D149
Dielectric Constant (Permittivity) @ 1 MHz		unitless	5.01	ASTM D150
Dielectric Loss Factor (Dissipation Factor) @ 1 MHz		unitless	0.02	ASTM D150

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