

NP510A

TECHNICAL DATA BULLETIN

GRADE: NP510A

IEC 60893-3-2-EP GC 202

U. L. LISTED: Y

DESCRIPTION: NP510A is a woven glass fabric composite combined with epoxy resin system. It is engineered to provide NEMA grade FR-4 properties. This material contains bromine on the epoxy resin backbone. NP510A is certifiable to MIL-I-24768/27, Type GEE-F.

THICKNESS TESTED: 1.59mm, 3.18mm & 12.70mm

TYPICAL PROPERTIES

PHYSICAL PROPERTIES		UNITS	VALUE
Moisture Absorption (1.59mm) (IEC 60893-2/8.2)	Condition A	mg	8.30
Flexural Strength (1.59mm) (IEC 60893-2/5.1)	Condition A LW / CW	Mpa	480 / 390
Izod Impact Strength (12.7mm) (IEC 60893-2/5.4.3)	Condition A LW / CW	kJ/m ²	58 / 55
Charpy Impact Strength (12.7mm) (IEC 60893-2/5.4.2)	Condition A LW / CW	kJ/m ²	63 / 50
THERMAL PROPERTIES			
Flammability Vertical (1.59mm) (IEC 60893-2/7.2)	Condition A	Class	V-0
ELECTRICAL PROPERTIES			
Breakdown Voltage (3.18mm) (IEC 60893-2/6.1)	Condition A	kVolts	65
Electric Strength (1.59mm) (IEC 60893-2/6.1)	Condition A	kV/mm	25
Insulation Resistance (3.18mm) (IEC 60893-2/6.3)	Condition E-24/50; D-24/23	MΩ	3.33E+13

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

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Specification writers: Contact Norplex-Micarta for specification values before submission.