

NP572

TECHNICAL DATA BULLETIN

GRADE: NP572

NEMA GRADE: G-11

U. L. LISTED: N

DESCRIPTION: NP572 is a high strength, medium weave glass epoxy laminate that retains a minimum of 50 percent of its room temperature flexural strength when tested at 150°C and its T_g is guaranteed to be 180°C or greater. Typical applications include electrical equipment subjected to elevated temperatures. NP572 is certifiable to IEC 60216-3, IEEE STD 98-2002 and ASTM D2304 for Class H insulation in electrical devices. NP572 is also certifiable to MIL-I-24768/3, Type GEB and IEC 60893-3-2-EP GC 308 and EP GC203.

THICKNESS TESTED: 0.062", 0.125" & 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity (0.500")	-	1.89
Rockwell Hardness (0.125")	M Scale	108
Moisture Absorption (0.062") Condition Di-24/23	%	0.20
Flexural Strength (0.062") Condition A	LW / CW psi	68,500 / 53,000
Condition E-1/150, T-150	LW / CW	45,700 / 41,900
Tensile Strength (0.125") Condition A	LW / CW psi	47,300 / 35,000
Izod Impact Strength (0.500") Condition E-48/50	LW ft-lb/in notched	12.5 / 10.3
Compressive Strength (0.500") Condition A	Flatwise psi	72,100
Bond Strength (0.500") Condition A	lb	1,800
Shear Strength (0.125")	Perpendicular psi	25,200

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
T _g (0.500")	°C	180 (minimum)
Flammability Rating - U. L. 94 (0.500")	Class	V0
Dissipation Factor (0.500") Condition D ₁ -24/23	-	0.018
Permittivity (0.500") Condition D ₁ -24/23	-	4.10
Breakdown Voltage (0.500") Condition A	kV	69
Electric Strength (0.062") Condition A	V/mil	680
Condition D		760
Arc Resistance D495 (0.125") Condition A	sec	185

The data presented, while believed to be accurate and representative of the material's characteristics, was compiled from a limited number totally independent tests using reliable analytical test methods. It is being provided for informational purposes only. We acknowledge that a larger data population may produce different results but have no means to predict what they may be. 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".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if information is most current.

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