

# NP310E

## TECHNICAL DATA BULLETIN

**GRADE:** NP310E      **NEMA GRADE:** CE      **U. L. LISTED:** N

**DESCRIPTION:** Manufactured with a domestic cotton fabric and phenolic resin. It is similar to NP310 with improved moisture resistance and electrical properties. The mechanical properties are equivalent to NP310, and it certifiable to MIL-I-24768/14.

**THICKNESS TESTED:** 0.062", 0.125", and 0.500"

### TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.37
Rockwell Hardness (.062")	M Scale	100
Moisture Absorption (.062")	%	2.0
Flexural Strength (.062") LW	psi	17,500
CW		15,000
Flexural Modulus (.062" LW	kpsi	1,600
CW		1,500
Tensile Strength (.125") LW	psi	11,000
CW		9,000
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	1.70
CW		1.50
Compressive Strength flatwise (.500")	psi	34,000
Bond Strength (.500") LW	lb	1,700
CW		1,700
Shear Strength (perpendicular) (.062")	psi	14,000

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Maximum Operating Temperature	°C	125 <sup>1</sup>
Coefficient of Thermal Expansion X-axis	"/°C x 10 <sup>-6</sup>	20.0
Y-axis		22.0
Flammability Rating - U. L. 94	CLASS	HB
Breakdown Voltage (.125") Condition - A	kV	40
D-48/50		3
Electric Strength (.062") Condition - A	V/mil	550
D-48/50		300
D-495, Arc Resistance (.125")	sec	15

<sup>1</sup> NEMA LI-6: This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

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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