

# NP613

## TECHNICAL DATA BULLETIN

**GRADE:** NP613

**NEMA GRADE:** –

**U. L. LISTED:** N

**DESCRIPTION:** NP613 is constructed from electrical grade of kraft paper and a specially modified epoxy resin system. It is designed to be used in tap changers, coil support plates and terminal panels for transformers and their accessories.

**THICKNESS TESTED:** 0.250", 0.500" and 0.750"

### TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.35
Rockwell Hardness (.062")	M Scale	90
Moisture Absorption (0.250, 0.500, 0.750")	%	0.9, 0.59, 0.34
Flexural Strength (.250") LW	psi	27,000
CW		22,000
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	1.25
CW	notched	1.00
Compressive Strength flatwise (.500")	psi	40,000
Bond Strength (.500")	lb	1,000

<b>THERMAL &amp; ELECTRICAL PROPERTIES</b>	<b>UNITS</b>	<b>VALUE</b>
Maximum Operating Temperature	°C	140
Flammability Rating - U. L. 94	Class	HB
Breakdown Voltage (.500") Condition - A		>40
D-48/50	kV	6
Transformer Oil (1" block – edgewise) E1-95, T-95		>70
Permittivity (.250" @ 1 mHz) Condition - D-24/23	-	4.6
Power Factor / Dissipation Factor (.062" @ 1mHz)	-	.040
Condition - D-24/23		--

<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".

**Last Revision:** December 16, 2005 ros