



# NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution



## NP843

### TECHNICAL DATA BULLETIN

GRADE: NP843

NEMA GRADE: ---

U. L. LISTED: N

**DESCRIPTION:** Paper reinforced phenolic grade with controlled conductivity. NP843 has mechanical strength similar to NP611. It has conductive surfaces only.

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

#### TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.40
Rockwell Hardness (.062")	M Scale	100
Moisture Absorption (.062", .125", .500")	%	2.3, 1.4, .4
Flexural Strength (.062") LW	psi	25,000
CW		21,000
Flexural Modulus (.062" LW	kpsi	2,140
CW		1,480
Tensile Strength (.125") LW	psi	22,000
CW		15,000
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	.70
CW		.50
Compressive Strength flatwise (.500")	psi	44,000
Bond Strength (.500")	lb	1,000
Shear Strength (perpendicular) (.062")	psi	11,500

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THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Maximum Operating Temperature	°C	125 <sup>1</sup>
Coefficient of Thermal Expansion X-axis (.062") Y-axis	" / °C x 10 <sup>-6</sup>	10.0 12.0
Flammability Rating - U. L. 94	Class	HB

<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".

Robert Smail

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2/28/2005

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