



## NP680

### TECHNICAL DATA BULLETIN

GRADE: NP680

NEMA GRADE: XP

U. L. LISTED: N

DESCRIPTION: Hot punching grade with electrical properties between NP611 to NP631.

THICKNESS TESTED: 0.062", 0.125" & 0.500"

#### TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.39
Rockwell Hardness (.062")	M Scale	94
Moisture Absorption (.062")	%	1.30
Flexural Strength (.062") LW	psi	26,400
CW		21,600
Flexural Modulus (.062" LW	kpsi	1,000
CW		900
Tensile Strength (.125") LW	psi	17,000
CW		13,500
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	.56
CW	notched	.49
Compressive Strength flatwise (.500")	psi	38,000
Bond Strength (.500")	lb	1,300
Shear Strength (perpendicular) (.062")	psi	11,000



# NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution

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THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Maximum Operating Temperature	°C	130 <sup>1</sup>
Coefficient of Thermal Expansion X-axis (.062") Y-axis	" / °C x 10 <sup>-6</sup>	16.0 20.0
Flammability Rating - U. L. 94	Class	HB
Breakdown Voltage Condition - A (.062") D-48/50	kV	55 12
Electric Strength Condition - A (.062") D-48/50	V/mil	750 500
Permittivity (.062") Condition - D-24/23	-	5.0
Dissipation Factor (.062") Condition - D-24/23	-	.040
Arc Resistance (.125") D-495	sec	100
Comparative Tracking Index (.125") D3638	-	180

<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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