

# NP325

## TECHNICAL DATA BULLETIN

GRADE: NP325

NEMA LI 1-1998 Grade: --

U.L. LISTED: N

DESCRIPTION: Linen phenolic laminate with graphite added as a solid lubricant. The linen substrate provides better surface to machined parts, and, more uniform wear resistance than NP315.

### TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
<b>PHYSICAL PROPERTIES</b>					
<b>Specific Gravity</b> (ASTM D792)		-			1.39
<b>Rockwell Hardness</b> (ASTM D785)	0.250" Build-up	M Scale	100		
<b>Moisture Absorption</b> (ASTM D570)	Condition D <sub>1</sub> -24/23	%	1.50		
<b>Flexural Strength</b> (ASTM D790)	Condition A LW / CW	psi (MPa)	20,100 / 19,200 (138.6) / (132.4)		
<b>Flexural Modulus</b> (ASTM D790)	Condition A LW / CW	kpsi (GPa)	1,500 / 1,100 (10.3) / (7.6)		
<b>Tensile Strength</b> (ASTM D638)	Condition A LW / CW	psi (MPa)		13,500 / 9,500 (93.1) / (65.5)	
<b>Izod Impact Strength</b> (ASTM D256)	Condition A LW / CW	ft-lb/in (J/cm)			
	Condition E-48/50 LW / CW	ft-lb/in (J/cm)			1.42 / 1.35 (0.76) / (0.72)
<b>Compressive Strength</b> (ASTM D695)	Condition A Flatwise	psi (MPa)			35,000 (241.3)
<b>Bonding Strength</b> (ASTM D229)	Condition A	lb (kg)			1,900 (861.8)
<b>Shear Strength</b> (ASTM D732)	Condition A Perpendicular	psi (MPa)	14,500 (100.0)		

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## TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.0625"	0.125"	0.500"
<b>THERMAL PROPERTIES</b>				
<b>Temperature Index</b> <sup>1</sup> (UL Bulletin 746b) Electrical / Mechanical	°C	/ 125		
<b>Coefficient of Thermal Expansion</b> (IPC-TM 650-2.4.24) X-axis / Y-axis	"/°C x10 <sup>-6</sup>	10.0 / 12.0		
<b>Flammability Rating</b> Condition A (UL Bulletin 94)	Class	HB		

<sup>1</sup> 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".

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](http://www.norplex-micarta.com), to determine if the information is the most current available.

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