

NP313HT

TECHNICAL DATA BULLETIN

GRADE: NP313HT

U.L. LISTED: N

DESCRIPTION: Canvas phenolic laminate with molybdenum disulphide added as a solid lubricant. This material has improved wear properties under certain conditions. Material is semi-conductive to electricity and should not be used where this is detrimental to the application.

TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-			1.40
Rockwell Hardness (ASTM D785)0.250" Build-up		M Scale	100		
Moisture Absorption (ASTM D570)Condition A		%	1.50		
Flexural Strength (ASTM D790)Condition ALW / CW		psi (Mpa)	26,000 / 19,500 (179.3) / (134.4)		
Flexural Modulus (ASTM D790)Condition ALW / CW		kpsi (Gpa)	1,200 / 1,000 (8.3) / (6.9)		
Tensile Strength (ASTM D638)Condition ALW / CW		psi (Mpa)		16,000 / 9,000 (110.3) / (62.1)	
Izod Impact Strength (ASTM D256)		Condition ALW / CW	ft-lb/in (J/cm)		
		Condition E-48/50	ft-lb/in		
		LW / CW	ft-lb/in (J/cm)		3.50 / 2.70 (1.87) / (1.44)
Compressive Strength (ASTM D695)Condition AFlatwise		psi (Mpa)			49,000 (337.8)
Bonding Strength (ASTM D229)Condition A		lb (kg)			2,300 (1,043.3)
Shear Strength (ASTM D732)Condition APerpendicular		psi (Mpa)	13,500 (93.1)		

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TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.0625"	0.125"	0.500"
THERMAL PROPERTIES				
Temperature Index ¹ (UL Bulletin 746b) Electrical / Mechanical	°C	/ 145		
Coefficient of Thermal Expansion (IPC-TM 650-2.4.24) X-axis / Y-axis	" / °C x10 ⁻⁶		10.0 / 15.0	
Flammability Rating (UL Bulletin 94) Condition A	Class	HB		

¹ 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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Specification writers: Contact Norplex-Micarta for specification values before submission.