

NP625 TECHNICAL DATA BULLETIN

GRADE: NP625 NEMA: XPC U.L. LISTED: N

DESCRIPTION: Paper phenolic grade with better electrical properties than NP612. NP625 requires slightly more heat to shear and punch than NP612.

TYPICAL PROPERTIES

			VALUE Thickness Tested		
		UNITS			
			0.0625"	0.125"	0.500"
PHYSICAL PROPERTIES					
Specific Gravity					
(ASTM D792)		-			1.39
Rockwell Hardness					
(ASTM D785)	0.250" Build	-up M Scale	85		
Moisture Absorption	Condition A				
(ASTM D570)		%			
	Condition D ₁ -24/23	%	1.60		
Flexural Strength	Condition A	psi	19,000 / 17,000		
(ASTM D790)	LW / (CW (Mpa)	(131.0) / (117.2)		
Flexural Modulus	Condition A	kpsi	1,000 / 850		
(ASTM D790)	LW / (CW (Gpa)	(6.9) / (5.9)		
Tensile Strength	Condition A	psi		12,400 / 10,400	
(ASTM D638)	LW / (CW (Mpa)		(85.5) / (71.7)	
Izod Impact Strength	Condition A	ft-lb/in			0.75 / 0.70
(ASTM D256)	LW / (CW (J/cm)			(0.40) / (0.37)
Compressive Strength	Condition A	psi			29,500
(ASTM D695)	Flatw	rise (Mpa)			(203.4)
Bonding Strength	Condition A	lb			1,100
(ASTM D229)		(kg)			(499.0)
Shear Strength	Condition A	psi	10,500		
(ASTM D732)	Perpendicu	ılar (Mpa)	(72.4)		



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TYPICAL PROPERTIES (continued)

		LINUTO	VALUE		
		UNITS	Thickness Tested		
			0.0625"	0.125"	0.500"
THERMAL PROPERTIES					
Temperature Index ¹ (UL Bulletin 746b)	Electrical / Mechanical	°C		130 / 130	
Coefficient of Thermal Expansion		"/"/°C			
(IPC-TM 650-2.4.24)	X-axis / Y-axis	x10 ⁻⁶		15.0 / 19.0	
Flammability Rating (UL Bulletin 94)	Condition A	Class	НВ		
ELECTRICAL PROPERTIES					
Dissipation Factor @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-	0.060		
Relative Permittivity @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-	6.05		
Breakdown Voltage (ASTM D149)	Condition A	kVolts	50		
Electric Strength (ASTM D149)	Condition A	Volts/mil (kV/cm)	700 (275.6)		
Arc Resistance (ASTM D495)	Condition A	sec	, ,	90	
Comparative Tracking Index (ASTM D3638)		Volts		180	

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".

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, to determine if the information is the most current available.

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