

NP342LS

TECHNICAL DATA BULLETIN

GRADE: NP342LS

NEMA LI 1-1998 Grade: --

U.L. LISTED: N

DESCRIPTION: Fine weave canvas phenolic engineered for dimensional stability and mechanical strength at temperatures as high as 125°C. Providing excellent moisture resistance and easy to machine, NP342LS low-shrink material was designed for use in Class B generators for wedge applications and can be tested to the General Electric specification A50A341.

TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.500"		
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-	1.37		
Rockwell Hardness (ASTM D785)	0.250" Build-up	M Scale	95		
Moisture Absorption (ASTM D570)	Condition D ₁ -24/23	%	0.58		
Flexural Strength (ASTM D790)	Condition A LW / CW	psi (MPa)	20,900 / 21,200 (144.1) / (146.2)		
Flexural Modulus (ASTM D790)	Condition A LW / CW	kpsi (GPa)	1,240 / 1,190 (8.5) / (8.2)		
Tensile Strength (ASTM D638)	Condition A LW / CW	psi (MPa)	13,200 / 14,800 (91.0) / (102.0)		
Tensile Modulus	Condition A LW / CW	kpsi (GPa)	1,410 / 1,530 (9.7) / (10.5)		
Izod Impact Strength (ASTM D256)	Condition A LW / CW	ft-lb/in (J/cm)	2.50 / 2.90 1.33 / 1.55		
Compressive Strength (ASTM D695)	Condition A Flatwise	psi (MPa)	41,000 (282.7)		
Shear Strength (ASTM D732)	Condition A Perpendicular	psi (MPa)	21,500 (148.2)		

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TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.500"		
THERMAL PROPERTIES				
Temperature Index ¹ (UL Bulletin 746b)	Electrical / Mechanical	°C	125 / 125	
Flammability Rating (UL Bulletin 94)	Condition A	Class	HB	
ELECTRICAL PROPERTIES				
Dissipation Factor @ 1 MHz (ASTM D150)	Condition A	-	0.066	
	Condition D-24/23	-	0.072	
Relative Permittivity @ 1 MHz (ASTM D150)	Condition A	-	5.17	
	Condition D-24/23	-	5.35	
Breakdown Voltage (ASTM D149)	Condition A	kVolts	64	

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".

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

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