NORPLEX MICARTA
Global Thermoset Composite Solutions

NP342LS

TECHNICAL DATA BULLETIN

GRADE: NP342LS **U.L. LISTED: N**

DESCRIPTION: Fine weave canvas phenolic engineered for dimensional stability and mechanical strength at temperatures as high as 125ºC. 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 A	%			
	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".

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.