

NP843

TECHNICAL DATA BULLETIN

GRADE: NP843

U.L. LISTED: N

DESCRIPTION: Paper reinforced phenolic grade with controlled conductivity. NP843 has mechanical strength similar to NP611. It has conductive surfaces only.

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 Condition A (ASTM D570)	%	2.30	1.40	0.40
Flexural Strength Condition A (ASTM D790) LW / CW	psi (Mpa)	25,000 / 21,000 (172.4) / (144.8)		
Flexural Modulus Condition A (ASTM D790) LW / CW	kpsi (Gpa)	2,140 / 1,480 (14.8) / (10.2)		
Tensile Strength Condition A (ASTM D638) LW / CW	psi (Mpa)		22,000 / 15,000 (151.7) / (103.4)	
Izod Impact Strength Condition A (ASTM D256) LW / CW	ft-lb/in (J/cm)			0.70 / 0.50 (0.37) / (0.27)
Compressive Strength Condition A (ASTM D695) Flatwise	psi (Mpa)			44,000 (303.4)
Bonding Strength Condition A (ASTM D229)	lb (kg)			1,000 (453.6)
Shear Strength Condition A (ASTM D732) Perpendicular	psi (Mpa)	11,500 (79.3)		



Global Thermoset Composite Solutions

TECHNICAL DATA BULLETIN

GRADE: NP843

U.L. LISTED: N

TYPICAL PROPERTIES (continued)

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

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.