NORPLEX MICARTA
Global Thermoset Composite Solutions

RT500F

TECHNICAL DATA BULLETIN

GRADE: RT500F **NEMA GRADE: G-10** **U.L. LISTED: N**

DESCRIPTION: The RT500F has good electrical properties under humid conditions, excellent heat resistance and mechanical properties. RT500F is made with a fine weave woven glass fabric, for better machining and a smoother surface finish. It also complies with MIL-I-24768/2, Type GEE and ASTM D709 Type IV Grade G-10.

TYPICAL PROPERTIES

		UNITS	VALUE [1]		
			Specimen Tested (ID x OD)		
				0.75″ x 1.00″	
PHYSICAL PROPERTIES					
Specific Gravity		-		1.85	
Rockwell Hardness		M Scale		115	
Moisture Absorption	Condition D_1-24/23	%		0.14	
Tensile Strength	Condition A	psi		38,900	
Compressive Strength	Condition A	psi		30,600	

NORPLEX MICARTA
Global Thermoset Composite Solutions

TYPICAL PROPERTIES (continued)

		UNITS	VALUE [1]		
			Specimen Tested (ID x OD)		
				0.75″ x 1.00″	
THERMAL PROPERTIES					
Temperature Index [2] Electrical / Mechanical		°C		200 / 200	
Flammability Rtg. (UL 94)	Condition A	Class		HB	
ELECTRICAL PROPERTIES					
Dissipation Factor	Condition A	-		0.030	
	Condition D-24/23	-		0.040	
Permittivity	Condition A	-		4.41	
	Condition D-24/23	-		4.48	
Breakdown Voltage	Condition A	kVolts		60	
Electric Strength	Condition A	Volts/mil		435	
	Condition D-48/50	Volts/mil		430	

[1] All testing performed to ASTM D-348 unless otherwise indicated.

[2] NEMA LI-6: 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 contact Customer Service, or preferably our web site, www.norplex-micarta.com, to determine if information is the most current.

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