



Global Thermoset Composite Solutions

RT500M

TECHNICAL DATA BULLETIN

GRADE: RT500M

NEMA GRADE: G-10

U.L. LISTED: N

DESCRIPTION: RT500M is composed of a medium weight glass fabric combined with an epoxy resin system. RT500M combines excellent electrical characteristics with very good physical properties. Electrical properties maintained in high humidity conditions. It also complies with MIL-I-24768/2, Type GEE and ASTM D709 Type IV Grade G-10. RT500M is not flame resistant.

TYPICAL PROPERTIES

		UNITS	VALUE ¹		
			Specimen Tested (ID x OD)		
				0.75" x 1.00"	
PHYSICAL PROPERTIES					
Specific Gravity		-		1.86	
Rockwell Hardness		M Scale		100	
Moisture Absorption	Condition D ₁ -24/23	%		0.14	
Tensile Strength	Condition A	psi		37,000	
Compressive Strength	Condition A	psi		34,000	



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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	-		0.028	
Condition D-24/23	-		0.038	
Condition D-48/50	-		0.045	
Permittivity Condition A	-		4.36	
Condition D-24/23	-		4.45	
Condition D-48/50	-		4.66	
Breakdown Voltage Condition A	kVolts		55	
Condition D-48/50	kVolts		50	
Electric Strength Condition A	Volts/mil		390	

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.