NORPLEX MICARTA
Global Thermoset Composite Solutions

RT504M

TECHNICAL DATA BULLETIN

GRADE: RT504M **NEMA LI 1-1998 GRADE: G-3** **U.L. LISTED: N**

DESCRIPTION: Grade RT504M is a medium weave glass fabric combined with a phenolic resin system. It has excellent heat and chemical resistance in basic systems. It has good physical strength and high impact resistance. Typical applications include structural parts and can be substituted for G-7 in certain applications. RT504M also complies with ANSI/NEMA IM 60000-2021 Grade G-3 and MIL-I-24768/18 GPG.

TYPICAL PROPERTIES

		UNITS	VALUE		
			Specimen Tested (ID x OD)		
				0.75″ x 1.00″	
PHYSICAL PROPERTIES					
Specific Gravity *(ASTM D792)*		-		1.84	
Rockwell Hardness *(ASTM D785)*		M Scale		120	
Moisture Absorption *(ASTM D570)*	Condition D_1-24/23	%		0.25	
Tensile Strength *(ASTM D638)*	Condition A	psi		37,500	
Tensile Modulus *(ASTM D638)*	Condition A	kpsi		2,700	
Compressive Strength *(ASTM D695)*	Condition A	psi		25,000	
Compressive Modulus *(ASTM D695)*	Condition A	kpsi		550	

RT504M - TYPICAL PROPERTIES (continued)

		UNITS	VALUE		
			Specimen Tested (ID x OD)		
				0.75″ x 1.00″	
THERMAL PROPERTIES					
Temperature Index [1] Electrical / Mechanical		°C		180 / 160	
Flammability Rating *(UL Bulletin 94)*	Condition A	Class		HB	
ELECTRICAL PROPERTIES					
Electric Strength *(ASTM D149)*	Condition A	Volts/mil		380	
	Condition D-48/50	Volts/mil		350	

[1] 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".

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 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.

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