

RM504

TECHNICAL DATA BULLETIN

GRADE: RM504

NEMA LI 1-1998 GRADE: G-3

U.L. LISTED: N

DESCRIPTION: Rolled and Molded Rods made from a woven fiber-glass cloth combined with a phenolic resin system. RM504 is used for mechanical applications and electrical applications, at low voltages. It has very good thermal resistance and ablative properties. It can and is used as a substitute for silicon glass materials in many applications. RM504 meets ANSI/NEMA IM 60000-2021 Grade G-4, MIL-I-24768/18 GPG.

TYPICAL PROPERTIES

	UNITS	VALUE ¹		
		Diameter Tested		
			0.500"	
PHYSICAL PROPERTIES				
Specific Gravity	-		1.79	
Rockwell Hardness	M Scale		110	
Moisture Absorption	Condition D ₁ -24/23	%	0.04	
Flexural Strength	Condition A	psi	59,700	
Tensile Strength	Condition A	psi	37,000	
Compressive Strength	Condition A	psi	68,000	
THERMAL PROPERTIES				
Temperature Index ²	Electrical / Mechanical	°C	140 / 170	
Flammability Rtg. (UL 94)	Condition A	Class	HB	

¹ All testing performed to ASTM D-349 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".

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.