

# RM504

## TECHNICAL DATA BULLETIN

**GRADE: RM504**

**NEMA GRADE: G-3 Type**

**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.

### TYPICAL PROPERTIES

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

<sup>1</sup> All testing performed to ASTM D-349 unless otherwise indicated.

<sup>2</sup> 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.

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