

# RT509

## TECHNICAL DATA BULLETIN

**GRADE: RT509**

**NEMA GRADE: G-9**

**U.L. LISTED: Y**

DESCRIPTION: Grade RT509 has good electrical properties under humid conditions and excellent arc resistance. Typical applications include fuse tubes and switchboard insulation. RT509 also complies with MIL-I-24768/1, Type GME and ASTM D709 Type IV Grade G-9 and IEC 61212-3-1-MFGC 21.

### TYPICAL PROPERTIES

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
<b>PHYSICAL PROPERTIES</b>				
<b>Specific Gravity</b> (ASTM D792)	-		1.95	
<b>Rockwell Hardness</b> (ASTM D785)	M Scale		115	
<b>Moisture Absorption</b> Condition D <sub>1-24/23</sub> (ASTM D570)	%		1.00	
<b>Tensile Strength</b> Condition A (ASTM D638)	psi		26,500	
<b>Compressive Strength</b> Condition A (ASTM D695)	psi		33,500	
<b>Compressive Modulus</b> Condition A (ASTM D695)	kpsi		1,000	

## RT509 - TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
<b>THERMAL PROPERTIES</b>				
<b>Temperature Index</b> <sup>1</sup>	Electrical / Mechanical	°C	150 / 150	
<b>Flammability Rating</b> (UL Bulletin 94)	Condition A	Class	V-0	
<b>ELECTRICAL PROPERTIES</b>				
<b>Breakdown Voltage</b> (ASTM D149)	Condition A	kVolts	55	
	Condition D-336/50	kVolts	50	
	Condition D-48/50	kVolts	30	
<b>Electric Strength</b> (ASTM D149)	Condition A	Volts/mil	350	
	Condition D-48/50	Volts/mil	340	

<sup>1</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.

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](http://www.norplex-micarta.com), to determine if information is the most current.

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