

# RT509F

## TECHNICAL DATA BULLETIN

**GRADE: RT509F**

**NEMA GRADE: G-9**

**U.L. LISTED: N**

DESCRIPTION: RT509F has good electrical properties under humid conditions and excellent arc resistance. The "F" version is made from a fine weave fabric. Typical applications include fuse tubes and switchboard insulation. RT509F also complies with MIL-I-24768/1, Type GME and ASTM D709 Type IV Grade G-9.

### TYPICAL PROPERTIES

		UNITS	VALUE <sup>1</sup>		
			Specimen Tested (ID x OD)		
				0.75" x 1.00"	
PHYSICAL PROPERTIES					
Specific Gravity		-		1.86	
Rockwell Hardness		M Scale		90	
Moisture Absorption	Condition D <sub>1</sub> -24/23	%		0.70	
Compressive Strength	Condition A	psi		27,100	
THERMAL PROPERTIES					
Temperature Index <sup>2</sup>					
Electrical / Mechanical		°C		150 / 150	
Flammability Rtg. (UL 94)	Condition A	Class		V-0	
ELECTRICAL PROPERTIES					
Breakdown Voltage	Condition A	kVolts		55	
	Condition D-336/50	kVolts		32	
	Condition D-48/50	kVolts		45	
Electric Strength	Condition A	Volts/mil		295	
	Condition D-48/50	Volts/mil		255	

<sup>1</sup> All testing performed to ASTM D-348 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.

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".

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