

RT509F

TECHNICAL DATA BULLETIN

GRADE: RT509F

NEMA LI 1-1998 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 ANSI/NEMA IM 60000-2021 Grade G-9, 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"	
PHYSICAL PROPERTIES				
Specific Gravity (ASTM D792)	-		1.88	
Rockwell Hardness (ASTM D785)	M Scale		120	
Moisture Absorption Condition D ₁ -24/23 (ASTM D570)	%		0.90	
Tensile Strength Condition A (ASTM D638)	psi		26,500	
Compressive Strength Condition A (ASTM D695)	psi		31,250	
Compressive Modulus Condition A (ASTM D695)	kpsi		600	

RT509F - TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
THERMAL PROPERTIES				
Temperature Index ¹ Electrical / Mechanical	°C		150 / 150	
Flammability Rating (UL Bulletin 94) Condition A	Class		V-0	
ELECTRICAL PROPERTIES				
Breakdown Voltage (ASTM D149) Condition A	kVolts		70	
	Condition D-336/50	kVolts	65	
	Condition D-48/50	kVolts	40	
Electric Strength (ASTM D149) Condition A	Volts/mil		380	
	Condition D-48/50	Volts/mil	335	

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.