NORPLEX MICARTA
Global Thermoset Composite Solutions

RT505F

TECHNICAL DATA BULLETIN

GRADE: RT505F **NEMA LI 1-1998 GRADE: G-5** **U.L. LISTED: N**

DESCRIPTION: RT505F has good electrical properties under humid conditions and has excellent arc resistance. The “F” version is made from a fine weave fabric. Typical applications include fuse tubes and naval switchboard insulation. RT505F also complies with ANSI/NEMA IM60000-2021 Grade G-5, MIL-I-24768/8, Type GMG and ASTM D709 Type IV Grade G-5.

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 *(ASTM D570)*	Condition D_1-24/23	%		0.90	
Tensile Strength *(ASTM D638)*	Condition A	psi		26,500	
Compressive Strength *(ASTM D695)*	Condition A	psi		31,250	
Compressive Modulus *(ASTM D695)*	Condition A	kpsi		600	

RT505F - 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					
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.