NORPLEX MICARTA
Global Thermoset Composite Solutions

RT507F

TECHNICAL DATA BULLETIN

GRADE: RT507F **NEMA GRADE: G-7** **U.L. LISTED: N**

DESCRIPTION: RT507F is manufactured using a fine weave glass fabric combined with a silicone resin system. It has excellent electrical properties under humid conditions, superior heat and arc resistance. Typical applications include heating appliance insulation, welding equipment nozzle insulation, heat barriers and specialty bearing applications. The fine weave fabric substrate provides a “finer” finish on the surface of the finished part. RT507F also complies with MIL-I-24768/17, Type GSG and ASTM D709 Type IV Grade G-

TYPICAL PROPERTIES

		UNITS	VALUE [1]		
			Specimen Tested (ID x OD)		
				0.75″ x 1.00″	
PHYSICAL PROPERTIES					
Specific Gravity		-		1.78	
Rockwell Hardness		M Scale		80	
Moisture Absorption	Condition D_1-24/23	%		0.16	
Compressive Strength	Condition A	psi		9,800	
THERMAL PROPERTIES					
Temperature Index [2]	Electrical / Mechanical	°C		170 / 220	
Flammability Rtg. (UL 94)	Condition A	Class		V-0	
ELECTRICAL PROPERTIES					
Electric Strength	Condition A	Volts/mil		265	

[1] All testing performed to ASTM D-348 unless otherwise indicated.

[2] 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".

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.