

RT511H

TECHNICAL DATA BULLETIN

GRADE: RT511H

NEMA LI 1-1998 GRADE: G-11, type

U.L. LISTED: N

DESCRIPTION: Being a heat treated version of RT511, RT511H uses a heavy weave glass fabric substrate and has excellent strength at elevated temperatures. Typical applications include bushings, spacers and structural parts for power generation equipment. RT511H complies with ANSI/NEMA IM 60000-2021 Grade G-11, MIL-I-24768/2, Type GEE and ASTM D709 Type IV Grade G-10.

TYPICAL PROPERTIES

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
PHYSICAL PROPERTIES				
Specific Gravity (ASTM D792)	-		1.78	
Rockwell Hardness (ASTM D785)	M Scale		115	
Moisture Absorption Condition D ₁ -24/23 (ASTM D570)	%		0.10	
Tensile Strength Condition A (ASTM D638)	psi		39,500	
Compressive Strength Condition A (ASTM D695)	psi		50,000	
Compressive Modulus Condition A (ASTM D695)	kpsi		1,100	

RT511H - TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
THERMAL PROPERTIES				
Temperature Index ¹	Electrical / Mechanical	°C	200 / 200	
Tg by DMA	Condition A	°C	≥ 170	
Flammability Rating (UL Bulletin 94)	Condition A	Class	HB	
ELECTRICAL PROPERTIES				
Breakdown Voltage (ASTM D149)	Condition A	kVolts	55	
	Condition D-48/50	kVolts	60	
Electric Strength (ASTM D149)	Condition A	Volts/mil	365	

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.