

# RT610

## TECHNICAL DATA BULLETIN

**GRADE: RT610**

**NEMA LI 1-1998 GRADE: X**

**U.L. LISTED: N**

DESCRIPTION: RT610 is a paper phenolic tube with fair electrical properties in dry conditions. It has good impact, tensile and compressive strength. Typical Applications are in switchboards, relays and other parts that require good machining characteristics. RT610 complies with ANSI/NEMA IM60000-2021 Grade X, MIL-I-24768/12, Type PBM, ASTM D709 Type I Grade X and IEC-61212-3-1 PF CP 21.

### TYPICAL PROPERTIES

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
<b>PHYSICAL PROPERTIES</b>				
<b>Specific Gravity</b> (ASTM D792)	-		1.30	
<b>Rockwell Hardness</b> (ASTM D785)	M Scale		100	
<b>Moisture Absorption</b> Condition D <sub>1</sub> -24/23 (ASTM D570)	%		1.20	
<b>Tensile Strength</b> Condition A (ASTM D638)	psi		15,400	
<b>Compressive Strength</b> Condition A (ASTM D695)	psi		23,000	
<b>Compressive Modulus</b> Condition A (ASTM D695)	kpsi		480	

## RT610 - TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
<b>THERMAL PROPERTIES</b>				
<b>Temperature Index</b> <sup>1</sup> Electrical / Mechanical	°C		140 / 140	
<b>Flammability Rating</b> (UL Bulletin 94) Condition A	Class		HB	
<b>ELECTRICAL PROPERTIES</b>				
<b>Dissipation Factor</b> @ 1 MHz (ASTM D150)	Condition A	-	0.038	
	Condition D-24/23	-	0.047	
<b>Relative Permittivity</b> @ 1 MHz (ASTM D150)	Condition A	-	5.35	
	Condition D-24/23	-	5.41	
<b>Electric Strength</b> (ASTM D149) Condition A	Volts/mil		400	

<sup>1</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".

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](http://www.norplex-micarta.com), to determine if information is the most current.

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