

# RTB320X

## TECHNICAL DATA BULLETIN

**GRADE: RTB320X**

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

**U.L. LISTED: N**

DESCRIPTION: RTB320X is composed of an extra-fine weave cotton and a phenolic resin to produce a tube product that has superior machining capability with smooth, fiber free surfaces. Typical uses include retainers for ball-bearings and applications that require fine machining characteristics. RTB320X also complies with ANSI/NEMA IM 60000-2021 Grade LE, MIL-I-24768/13, Type FBE, ASTM D709 Type II Grade LE, ASTM F2953-12 Type FBEFW, Federal Specification WW-L-2887 and IEC 61212-3-1 PF CC 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)	-		1.29	
<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>Acetone Extraction</b> Condition A (ASTM F2953-12)	%		<1.0	
<b>Tensile Strength</b> Condition A (ASTM D638)	psi		10,000	
<b>Compressive Strength</b> Condition A (ASTM D695)	psi		30,000	
<b>Compressive Modulus</b> Condition A (ASTM D695)	kpsi		425	

## RTB320X - 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		125 / 125	
<b>Flammability Rating</b> Condition A (UL Bulletin 94)	Class		HB	
<b>ELECTRICAL PROPERTIES</b>				
<b>Electric Strength</b> Condition A (ASTM D149)	Volts/mil		190	

<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.