

RT130X

TECHNICAL DATA BULLETIN

GRADE: RT130X

NEMA LI 1-1998 GRADE: FR-4

U.L. LISTED: N

DESCRIPTION: Grade RT130X meets all of the property requirements of NEMA FR-4, with the added feature of being flame resistant, UL94 V-0. Typical applications include bushings, spacers and other structural parts. RT130X is manufactured with an extra fine glass fabric and has excellent machining characteristics. RT130X also complies with ANSI/NEMA IM 60000-2021 Grade FR-4, MIL-I-24768/24 GEE-F and IEC 61212-3-1 EP GC 23.

TYPICAL PROPERTIES

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
PHYSICAL PROPERTIES				
Specific Gravity (ASTM D792)	-		1.96	
Rockwell Hardness (ASTM D785)	M Scale		115	
Moisture Absorption Condition D ₁ -24/23 (ASTM D570)	%		0.05	
Tensile Strength Condition A (ASTM D638)	psi		61,000	
Tensile Modulus Condition A (ASTM D638)	kpsi		241	
Compressive Strength Condition A (ASTM D695)	psi		50,500	
Compressive Modulus Condition A (ASTM D695)	kpsi		1,250	

RT130X - TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Specimen Tested (ID x OD)		
			0.75" x 1.00"	
THERMAL PROPERTIES				
Temperature Index ¹ Electrical / Mechanical	°C		140 / 140	
Flammability Rating Condition A (UL Bulletin 94)	Class		V-0	
ELECTRICAL PROPERTIES				
Electric Strength (ASTM D149)	Condition A	Volts/mil	475	
	Condition D-48/50	Volts/mil	500	

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.