



Global Thermoset Composite Solutions

BT25NPG

TECHNICAL DATA BULLETIN

GRADE: BT25NPG

NEMA GRADE: --

U.L. LISTED: N

DESCRIPTION: BT25NPG uses a fine weave cotton fabric (linen) substrate. The resin system has graphitic carbon added in order to provide lubrication in bearing and bushing applications. It is an excellent machining grade, but should not be used in applications where electrical insulation is required as the resin system is conductive.

TYPICAL PROPERTIES

		UNITS	VALUE	
			Specimen Tested (ID x OD)	
			0.75" x 1.00"	
PHYSICAL PROPERTIES				
Specific Gravity (ASTM D792)		-	1.30	
Rockwell Hardness (ASTM D785)		M Scale	90	
Moisture Absorption (ASTM D570)	Condition D ₁ -24/23	%	1.50	
	Condition E-24/50	%		
Acetone Extraction (ASTM F2953-12)	Condition A	%		
Tensile Strength (ASTM D638)	Condition A	psi	10,500	
	Condition E-1/150: T-150	psi		
Tensile Modulus (ASTM D638)	Condition A	kpsi		
	Condition E-1/150: T-150	kpsi		
Compressive Strength (ASTM D695)	Condition A	psi	23,500	
	Condition E-1/150: T-150	psi		
Compressive Modulus (ASTM D695)	Condition A	kpsi		
	Condition E-1/150: T-150	kpsi		

BT25NPG - TYPICAL PROPERTIES (continued)

		UNITS	VALUE		
			Specimen Tested (ID x OD)		
				0.75" x 1.00"	
THERMAL PROPERTIES					
Temperature Index ¹	Electrical / Mechanical	°C		- / 125	
Tg by DMA	Condition A	°C			
Flammability Rating (UL Bulletin 94)	Condition A	Class		HB	
ELECTRICAL PROPERTIES					
Dissipation Factor @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-			
	Condition D-48/50	-			
Relative Permittivity @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-			
	Condition D-48/50	-			
Breakdown Voltage (ASTM D149)	Condition A	kVolts			
	Condition D-336/50	kVolts			
	Condition D-48/50	kVolts			
Electric Strength (ASTM D149)	Condition A	Volts/mil			
	Condition D-48/50	Volts/mil			

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.