

NP338

TECHNICAL DATA BULLETIN

GRADE: NP338

NEMA LI 1-1998 Grade: --

U.L. LISTED: N

DESCRIPTION: NP338 is a combination of two Norplex-Micarta grades, NP310 which is a canvas phenolic, on one side of the laminate, and NP315, a canvas phenolic with graphite added as a solid lubricant on the other side of the laminate. NP338 is ideal for applications requiring high impact strength and low coefficient of friction such as railway couplers. Material is conductive to electricity and should not be used where conductivity is detrimental to the application.

TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.250"		
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-	1.42		
Rockwell Hardness (ASTM D785)	0.250" Build-up	M Scale	86		
Moisture Absorption (ASTM D570)	Condition D ₁ -24/23	%	1.70		
Flexural Strength (ASTM D790)	Condition A LW / CW	psi (MPa)	21,100 / 19,000 (145.5) / (131.0)		
Flexural Modulus (ASTM D790)	Condition A LW / CW	kpsi (GPa)	980 / 960 (6.8) / (6.6)		
Tensile Strength (ASTM D638)	Condition A LW / CW	psi (MPa)	13,900 / 11,500 (95.8) / (79.3)		
Tensile Modulus	Condition A LW / CW	kpsi (GPa)	1,480 / 1,440 (10.2) / (9.9)		
Izod Impact Strength (ASTM D256)	Condition A LW / CW	ft-lb/in (J/cm)			
	Condition E-48/50 LW / CW	ft-lb/in (J/cm)	4.20 / 3.40 (2.24) / (1.81)		
Compressive Strength (ASTM D695)	Condition A Flatwise	psi (MPa)	39,200 (270.3)		
Shear Strength (ASTM D732)	Condition A Perpendicular	psi (MPa)	20,400 (140.7)		

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TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.250"		
THERMAL PROPERTIES				
Flammability Rating (UL Bulletin 94)	Condition A	Class	HB	

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 check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if the information is the most current available.

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