

### **NP338**

# **TECHNICAL DATA BULLETIN**

**GRADE: NP338** 

NEMA: --

**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.

				VALUE Thickness Tested		
			UNITS			
				0.250″		
PHYSICAL PROPERT	IES					
Specific Gravity						
(ASTM D792)			-	1.42		
Rockwell Hardness					•	
(ASTM D785)	0.2	50" Build-up	M Scale	8	6	
Moisture Absorption	Condition A					
(ASTM D570)			%	1.70		
Flexural Strength	Condition A		psi	21,100 / 19,000		
(ASTM D790)		LW / CW	(Mpa)	(145.5) / (131.0)		
Flexural Modulus	Condition A		kpsi	980 / 960		
(ASTM D790)		LW / CW	(Gpa)	(6.8) / (6.6)		
Tensile Strength	Condition A		psi	13,900 / 11,500		
(ASTM D638)		LW / CW	(Mpa)	(95.8) / (79.3)		
Tensile Modulus	Condition A		kpsi	1,480 / 1,440		
		LW / CW	(Gpa)	(10.2) / (9.9)		
Izod Impact Strength	Condition A		ft-lb/in			
(ASTM D256)		LW / CW	(J/cm)			
	Condition E-48/50		ft-lb/in	4.20 / 3.40		
		LW / CW	(J/cm)	(2.24) / (1.81)		
Compressive Strength	Condition A		psi	39,200		
(ASTM D695)		Flatwise	(Mpa)	(270.3)		
Shear Strength	Condition A		psi	20,400		
(ASTM D732)	P	erpendicular	(Mpa)	(140.7)		

### **TYPICAL PROPERTIES**



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#### **TYPICAL PROPERTIES (continued)**

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

<sup>1</sup> 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".

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, <u>www.norplex-micarta.com</u>, to determine if the information is the most current available.

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