

# NP193P

## TECHNICAL DATA BULLETIN

**GRADE: NP193P**

**U.L. LISTED: N**

DESCRIPTION: 17 oz. aramid and "soft glass" fibers are combined to make a fabric that is stronger than pure aramid and less abrasive than glass fabrics. This material is impregnated with a high temperature phenolic resin matrix, which produces a composite with excellent mechanical strength at elevated temperatures and adverse environments. Applications include wear plates for conveyor systems, valve plates, and compressor and pump vanes. Variations of this material may be developed for specific applications.

### TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.125"	0.500"	
<b>PHYSICAL PROPERTIES</b>					
<b>Specific Gravity</b> (ASTM D792)		-		1.43	
<b>Rockwell Hardness</b> (ASTM D785)	0.250" Build-up	M Scale	85		
<b>Moisture Absorption</b> (ASTM D570)	Condition A	%			
	Condition D <sub>1</sub> -24/23	%	2.62		
<b>Flexural Strength</b> (ASTM D790)	Condition A	psi	30,700 / 14,100		
	LW / CW	(Mpa)	(211.7) / (97.2)		
	Condition E-1/150: T-150	psi	24,600 / 11,700		
	LW / CW	(Mpa)	(169.6) / (80.7)		
<b>Flexural Modulus</b> (ASTM D790)	Condition A	kpsi	1,800 / 1,700		
	LW / CW	(Gpa)	(12.4) / (11.7)		
<b>Tensile Strength</b> (ASTM D638)	Condition A	psi	21,600 / 8,300		
	LW / CW	(Mpa)	(148.9) / (57.2)		
<b>Izod Impact Strength</b> (ASTM D256)	Condition A	ft-lb/in		5.00 / 4.50	
	LW / CW	(J/cm)		(2.67) / (2.40)	
<b>Compressive Strength</b> (ASTM D695)	Condition A	psi		36,600	
	Flatwise	(Mpa)		(252.3)	

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## TYPICAL PROPERTIES (continued)

	UNITS	VALUE		
		Thickness Tested		
		0.125"	0.500"	
<b>THERMAL PROPERTIES</b>				
<b>Maximum Operating Temperature</b> <sup>1</sup>	°C		130	
<b>Flammability Rating</b> 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".

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