



## NP193M

# TECHNICAL DATA BULLETIN

## 技术参数

**GRADE:** NP193M

**U. L. LISTED:** N

产品名: NP193M

U.L.认证: 否

**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 fabric. This material is impregnated with a melamine resin matrix. Applications include compressor and pump vanes. Variations of this material are being developed for specific applications.

**产品描述:** 17 盎司芳族聚酰胺和软玻璃纤维的复合材料比纯芳族聚酰胺材料强度更大，但没有玻璃布耐磨。它由三聚氰胺甲醛树脂浸渍而成。应用包括压缩器和泵片，也可以根据具体的应用而开发出变种。

### TYPICAL PROPERTIES 典型特性

GENERAL PHYSICAL PROPERTIES 一般物理性能	UNITS 单位	VALUE 数值		
		Thickness Tested 试样厚度		
		0.0625"	0.125"	0.5"
Specific Gravity (ASTM D792) 密度	-			1.85
Rockwell Hardness (ASTM D785) 0.25" Build-up 洛氏硬度	M Scale	115		
Moisture Absorption Condition A (ASTM D570) 吸水率	%	0.1	5.7	
Flexural Strength Condition A (ASTM D790) LW/CW	psi (Mpa)	65,000/52,000 (448.2)/(358.5)	34,000/13,000 (234.4)/(89.6)	
	psi (Mpa)	2,900/2,600 (20)/(17.9)	32,000/13,000 (220.6)/(89.6)	
Condition E-1/150: T-150 LW/CW 纵向/横向弯曲强度				
Flexural Modulus Condition A (ASTM D790) LW/CW 纵向/横向弯曲模量	psi (Gpa)		1,200/1,200 (8.3)/(8.3)	
Tensile Strength Condition A (ASTM D638) LW/CW 纵向/横向抗张强度	psi (Mpa)		40,000/32,000 (275.8)/(220.6)	

Izod Impact Strength Condition A (ASTM D256) LW/CW 纵向/横向冲击强度	ft-lb/in (j/cm)		32/9 (17.08)/(4.8)	7.9/7.3 (4.22)/(3.90)
Compressive Strength Condition A (ASTM D695) flatwise平面耐压强度	psi (Mpa)		42,000 (289.6)	66,000 (455.1)
Bonding Strength Condition A (ASTM D229) 粘合强度	Lb (kg)		2,000 (907.2)	2,300 (1043.3)
Shear Strength Condition A (ASTM D732) perpendicular 垂直抗剪强度	psi (Mpa)	21,500 (148.2)	20,000 (137.9)	

THERMAL PROPERTIES & ELECTRICAL PROPERTIES 热和电性质	UNITS 单位	VALUE 数值		
		Thickness Tested 试样厚度		
		0.062"	0.125"	0.5"
Maximum Operating Temperature <sup>1</sup> 最高工作温度	°C			130
Coefficient of Thermal Expansion (IPC-TM 650-2.4.24) X-axis/Y-axis X轴/Y轴热膨胀系数	" / °C x 10 <sup>-6</sup>	13/10	18/11	
Flammability Rating Condition A (UL Bulletin 94) 阻燃等级	CLASS	V-0		
Dissipation Factor Condition A @ 1 MHz (ASTM D 150) Condition D <sub>1</sub> -24/23 耗散因数	-			
	-	0.032	0.04	
Relative Permittivity Condition A @ 1 MHz (ASTM D 150) Condition D <sub>1</sub> -24/23介电常数	-			
	-	4.8	8	
Breakdown Voltage Condition A (ASTM D149) Condition D-48/50击穿电压	kV	66	53	
	kV	65	11	
Electric Strength Condition A	V/mil (kV/cm)	800 (315)		

(ASTM D149) Condition D-48/50 耐电强度	V/mil (kV/cm)	750 (295.3)		
Arc Resistance Condition A (ASTM D495) 耐电弧性	sec		130	
Comparative Tracking Index (ASTM D3638) 相比漏电起痕指数	Volts		300	

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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.

该温度仅供参考，应根据实际应用情况而定。最高使用温度应根据实际应用而定，用户应先进行测试再投入生产。

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".

以上基于可靠分析的精确数据仅供参考。销售合同中所列条款为本产品的唯一销售准则。表中各数据仅为标准值，而非给定值。

(注：中文注解仅供参考，以英文为准)