


**Spaulding**  
 COMPOSITES INC.

**ENGINEERING DATA SHEET**  
**GRADE: SPAULDITE® T-606 LAMINATE SHEET**

 Reprint of: \_\_\_\_\_ Issued: 0506

Spauldite® Grade T-606 is a medium-weave cotton fabric (canvas) base phenolic laminate with good physical strength and a high degree of physical toughness and resistance to shock and impact loads. Grade T-606 is resistant to many corrosive chemicals and can be machined to a relatively smooth surface. Grade T-606 is a very versatile laminate meeting a wide range of mechanical requirements. This grade exceeds NEMA CE and LP 509 II CE.

**MAJOR FEATURES**

- Physical Toughness
- Good Impact Strength
- Good Wearing Qualities
- Readily Machined
- Good Mechanical Strength

**APPLICATIONS**

Grade T-606 was formulated for electrical applications requiring good moisture resistance and good mechanical strength.

**ELECTRICAL CHARACTERISTICS**

T-606 possesses fairly good dielectric properties and medium dielectric loss.

**MECHANICAL CHARACTERISTICS**

T-606 shows good resistance to both static and dynamic loads. High flexural and compressive strength combined with good impact strength provides high resistance to physical abuse.

**FABRICATION**

Grade T-606 is ordinarily machined to shape from the basic sheet form. It is readily fabricated with standard machine tools and can be turned, milled, drilled, shaped and otherwise machined in much the same manner as brass. Surfaces can be ground or sanded. Good machining practices will produce very smooth surfaces, intricate shapes and close tolerances. In normal punching thicknesses, this grade can be punched after heating. Temperatures required depend on the intricacy of the part and thickness of material.

In addition to manufacturing Spauldite® high pressure laminated sheets, tubes and rods, Spaulding has complete fabricating facilities in Rochester, NH for all types of machining, drilling and punching of laminated materials.

STANDARD SHEET SIZE<sup>1</sup>: 48" X 36"      COLOR: NATURAL, BLACK      THICKNESS: .031" – 6.000"  
 48" X 48"

<sup>1</sup> Contact Customer Service for availability of additional sheet sizes.

*"To the best of our knowledge the information contained herein is accurate; however, Spaulding Composites Company, Inc. does not accept any liability regarding the accuracy or completeness of such information. Further, such information is based on standard base material and thus may change if the product ordered by purchaser requires further processing of base material by us and/or the purchaser. Purchaser has the sole responsibility in determining the suitability of any material described herein for the use contemplated and the processing of such material by purchaser."*



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### PROPERTY CHARACTERISTICS

PROPERTY	ASTM TEST METHOD	CONDITIONING & TYPE OF TEST	THICKNESS INCHES	AVERAGE TYPICAL VALUES		NEMA CE or MIL-I-24768/14 ROMTS	
				ENGLISH	SI	ENGLISH	SI
<b>ELECTRICAL</b>							
Dielectric Breakdown (Parallel-Taper Pin)	D-229	A (S/S) (S/T)	.090 .090	38.5 kV	38.5 kV	≥35.0 kV	≥35.0 kV
				62.0 kV	62.0 kV	≥35.0 kV	≥35.0 kV
<b>MECHANICAL</b>							
Bonding Strength	D-229	A Lengthwise Crosswise	.500 .500	2,540 lbs	11.30 kN	≥1,800 lbs	≥8.00 kN
				2700 lbs	12.01kN	≥1,800 lbs	≥8.00 kN
Compressive Strength Flatwise	D-229	A	.090	45.7 ksi	315.2 MPa	≥35.0 ksi	≥241.3MPa
Flexural Strength Flatwise	D-229	A Lengthwise Crosswise	.090 .090	18.7 ksi	(MPa) 128.8	≥17.0 ksi	(MPa) 117.2
				17.5 ksi	120.9	≥14.0 ksi	96.5
Izod Impact Edgewise Notched	D-229	E-48/50 Lengthwise Crosswise	.090 .090	2.84 ft-lbs/in	.151 J/mm	≥1.60 ft-lbs/in	≥.085 J/mm
				2.76 ft-lbs/in	.147 J/mm	≥1.40 ft-lbs/in	≥.075 J/mm
<b>PHYSICAL</b>							
Density	D-792	A	.090	.050 lbs/in <sup>3</sup>	1.38 g/cm <sup>3</sup>	NR	NR
Rockwell Hardness	D-229	A	.090	M-110	M-110	NR	NR
Water Absorption	D-229	D1-24/23	.125	1.28%	1.28%	≤1.60%	≤1.60%
			.156	-	-	≤1.60%	≤1.60%
			.500			≤0.75%	≤0.75%

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