


Spaulding
 COMPOSITES INC

ENGINEERING DATA SHEET
GRADE: SPAULDITE® T-889-TR TUBING

Reprint of: _____ Issued: _____

Spaldite® Grade T-889-TR is a medium weave cotton fabric base tube paper base tube utilizing a special low odor phenolic resin developed especially to meet the needs of fabricating manufacturers. This special Spaldite tubing grade is similar to NEMA C/CE, but has proven to have superior mechanical and dielectric properties.

MAJOR FEATURES

- Excellent Mechanical Strength
- High Wear Resistance
- Tough
- High Resilience, Flexible, Shock Absorbing

FABRICATION

Grade T-889-TR can be sawed, turned, bored, etc. Carbide tipped tools, while not always required, are recommended. Recommended fabricating conditions:
 Circular Sawing: 10,000-13,000 peripheral feet/in
 Lathe – Turn, face, bore, chamfer: 1500 surface ft/min
 Lathe – Cutoff, plunge, groove: 400 surface ft/min.

CHARACTERISTICS
Electrical

- Good dielectric strength

Mechanical

- High tensile strength
- High Axial compression

A table of typical characteristic properties are shown on page 2.

AVAILABLE FORMS

COLOR: NATURAL OR BLACK

STANDARD TUBE SIZE: 5/8" Min. I.D.
 16" Max. O.D.
 1/16" Min. Wall
 Max. Wall – TBD*

SPECIAL:

*To be determined.

"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	WALL THICKNESS (INCHES)	AVERAGE TYPICAL VALUES ¹		NEMA C or MIL-I-24768/16 ROMTS	
				ENGLISH	SI	ENGLISH	SI
ELECTRICAL							
Dielectric Strength Perpendicular	D-348	A	.125	122 V/M	4.8 kV/mm	NR	NR
MECHANICAL							
Compressive Strength Axial	D-348	A	.125	20.8 ksi	143.1 MPa	≥12.0 ksi	≥82.7 MPa
Tensile Strength	D-348	A	.125	10.2 ksi	70.5 Mpa	NR	NR
PHYSICAL							
Density	D-348	A	.125	.048 lb/in ³	1.32 g/cm ³	≥.040 lb/in ³	≥1.12 g/cm ³
Water Absorption	D-348	D-24/23	.125	2.0%	2.0%	≤3.0%	≤3.0%
Rockwell Hardness	D-348	A	.125	M93	M93	NR	NR

¹ Data shown is based on tube size 7/8" I.D. x 1-1/8" O.D.

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