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Spauldite® Grade T-328-TR is an extra fine weave cotton base tube utilizing a special low odor phenolic resin developed especially to meet the needs of precision ball bearing retainer manufacturers. T-328-TR is similar to T-320-TR, but is made with even finer weave fabric for the most demanding machining requirements.

This special Spauldite® tubing grade is similar to NEMA LE and MIL-I-24768/13 (FBE), but has proven to have the lubrication retention properties, dimensional stability characteristics and the machinability important to ball bearing retainer fabricators.

MAJOR FEATURES

- Good Machinability
- Good Wear Properties
- Excellent Mechanical and Electrical Properties

FABRICATION

Grade T-328-TR can be centerless ground, sawed, lathe turned and otherwise machined quite readily with standard production equipment.

APPLICATIONS

- Bearing Retainer

CHARACTERISTICS
Electrical

Excellent Electrical properties. Exceeds NEMA LE and MIL-I-24768/13 (FBE).

Mechanical

Excellent mechanical properties.

PROPERTY CHARACTERISTICS

PROPERTY	ASTM TEST METHOD	CONDITIONING & TYPE OF TEST	WALL THICKNESS (INCHES)	AVERAGE TYPICAL VALUES ¹		NEMA LE REQUIREMENTS	
				ENGLISH	SI	ENGLISH	SI
DIELECTRIC							
Dielectric Strength Perpendicular	D-348	A (S.T.)	.125	350 V/Mil	13.8 KV/mm	≥140 V/Mil	≥5.5 KV/mm
MECHANICAL							
Compressive Strength Axial	D-348	A	.125	30.6 ksi	211.0 MPa	≥13.0 ksi	≥89.6 MPa
Tensile Strength	D-348	A	.125	11.2 ksi	77.2 MPa	NR	NR
PHYSICAL							
Density	D-348	A	.125	.047 lb/in ³	1.31 g/cm ³	≥.041 lb/in ³	≥1.14 g/cm ³
Water Absorption	D-348	D-24/23	.125	2.17%	2.17%	≤4.5%	≤4.5%

¹ Data shown is based on tube size 0.875" I.D. x 1.125" O.D.

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