

DeWAL® DW502

DeWAL® DW502 is a skived, tensilized PTFE (polytetrafluoroethylene) film held to close tolerance on width and thickness. This film conforms to MIL-P-22241B. The tensilizing process yields a film with greatly enhanced tensile and dielectric strengths.

Features & Benefits:

- Increased tensile and dielectric strengths
- Held to close tolerances on width and thickness
- Conforms to MIL-P-22241B

Applications:

- Electrical insulation applications
- Capacitor films
- Harnesses for electrical wiring in automotive & aerospace
- Spacers for transformers

PROPERTY	TEST METHOD	DATA RANGE	TYPICAL VALUE*
PHYSICAL			
Base Film		---	PTFE Film
Density, g/cc	ASTM-D792	2.14 - 2.19	2.16
Tensile Strength, MPa (PSI)	ASTM-D882 @ 0.002"	89 - 141 (12,974 - 20,443)	120 (17,470)
Elongation, %	ASTM-D882 @ 0.002" thick	120 - 161	138
Dielectric Strength, Volts/mil	ASTM-D149 @ 0.002" thick	5,140 - 7,280	6,283
Dissipation Factor	ASTM-D150 @ 1kHz		0.0027
Dielectric Constant	ASTM-D150 @ 1kHz		1.41
Capacitance, Farad	ASTM-D150 @ 1kHz		277.6
Maximum Operating Temperature, C° (F°)			260 (500)

PRODUCT DIMENSIONS	METRIC	ENGLISH
Thickness mm, inches	0.051 - 0.127	0.002 - 0.005
Maximum Width mm, inches	0.635 - 508	0.25 - 20
Core Diameter mm, inches	76	3
Maximum Roll O.D., mm, inches	35.6	14

*Typical values shown are from testing at date of manufacture and should not be used for specification limits.

- Additional technical information and product specifications are available upon request.
- Storage conditions recommendation of 21°C (70°F) and 50% RH.
- All metric conversions are approximate.