

DeWAL® DW402

DeWAL® DW402 is a skived Ultra-High Molecular Weight Polyethylene (UHMW-PE) film.

Features & Benefits:

- High abrasion resistance
- High chemical resistance
- Low coefficient of friction
- FDA compliant to 21CFR 177.1520

Applications:

- Inner & outer surfaces of potable water
- Outer covering on hoses for severe applications
- Chemical, fuel, and hydraulic hoses
- Automotive weather stripping, and anti-squeak applications

PROPERTY	TEST METHOD	DATA RANGE	TYPICAL VALUE*
PHYSICAL			
Base Film		---	UHMW Film
Density, g/cc	ASTM-D792	0.91 - 0.94	0.92
Tensile Strength, MPa (psi)	ASTM-D882 @ 0.01" thick	44.6 - 63.6 (6,475 - 9,230)	54.2 (8,154)
Elongation, %	ASTM-D882 @ 0.01" thick	350 - 575	457
Dissipation Factor	ASTM -D150 @ 1kHz		0.0004
Dielectric Constant	ASTM-D150 @ 1MHz		2.00
Capacitance, Farad	ASTM-D150 @ 1kHz		157.8
Maximum Operating Temperature, C° (F°)			93 (200)

TABER ABRASION TEST DATA	TEST METHOD	DATA RANGE	TYPICAL VALUE*
Weight Loss, g	A 1000g, 0.51mm thick sample underwent 1000 cycles against two different Taber Abrasion Wheels. Based off of ASTM D3489-17 method for polyurethanes	0.023 - 0.026	0.025
Change, %		-0.54 to -0.60	-0.57

PRODUCT DIMENSIONS	METRIC	ENGLISH
Thickness mm, inches	0.076 - 1.575	0.003 - 0.062
Maximum Width mm, inches	6.35 - 1397	0.25 - 55
Core Diameter mm, inches	76	3
Maximum Roll O.D. mm, inches	356	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.

- All metric conversions are approximate.