

DeWAL® DW405BNC

DeWAL® DW405BNC is a skived Ultra-High Molecular Weight (UHMW) polyethylene that has been compounded with a small amount of carbon to render it black. The carbon type and level make the material black in color but not conductive. The carbon also provides UV resistance.

Features & Benefits:

- High abrasion resistance
- High chemical resistance
- Low coefficient of friction
- UV resistant

Applications:

- Anti-squeak tape for automotive applications
- Outer covering on hoses for severe applications
- Mechanical applications

PROPERTY	TEST METHOD	DATA RANGE	TYPICAL VALUE*
PHYSICAL			
Base Film		---	UHMW Film
Density, g (cc)	ASTM-D792	0.92 - 0.94	0.93
Tensile Strength, MPa (psi)	ASTM-D882 @ 0.20 mm (0.008")	44 - 59 (6,440 - 8,526)	52 (7,485)
Elongation, %	ASTM-D882 @ 0.20 mm (0.008")	324 - 490	414
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 D8439-17 method for polyurethanes	0.013 - 0.019	0.016
Change, %		-0.30 to -0.44	-0.37

PRODUCT DIMENSIONS	METRIC	ENGLISH
Thickness mm, inches	0.076 – 1.016	0.003 – 0.040
Maximum Width mm, inches	6.35 - 1397	0.25 - 55
Core Diameter mm, inches	76	3
Maximum Roll O.D. mm, inches	355.6	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.
- Shelf life is 1 year from the date of manufacture with storage conditions of 21°C (70°F) and 50% RH.
- All metric conversions are approximate.