

DeWAL® UHMW-PE Film for Automotive Weather Strip

Features:

- Extreme abrasion resistance
- No water absorption
- Superior sound dampening
- Very low coefficient of friction
- Drop-in solution
- Permanent bond to EDPM profile without adhesive
- Green process

Benefits:

- Improves durability
- Quieter operation
- Reduced window motor size
- Reduced environmental impact
- Reduced CapEx on new weather strip production lines
- Reduced warranty claims

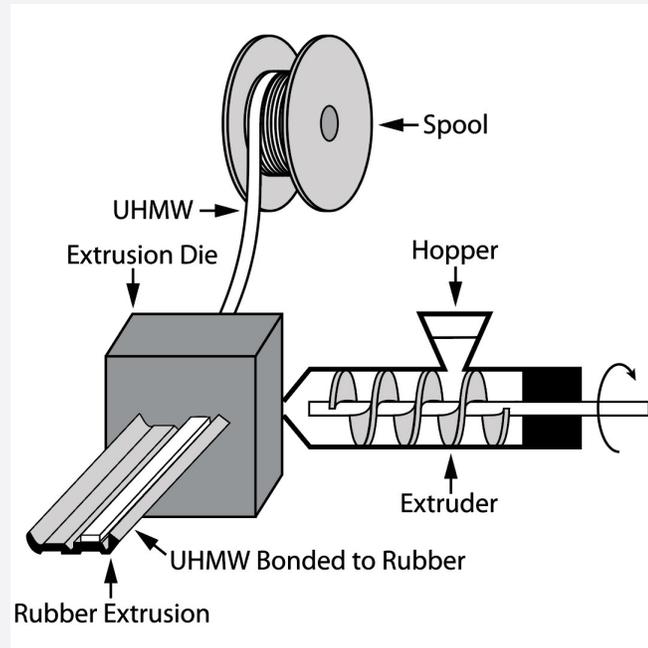
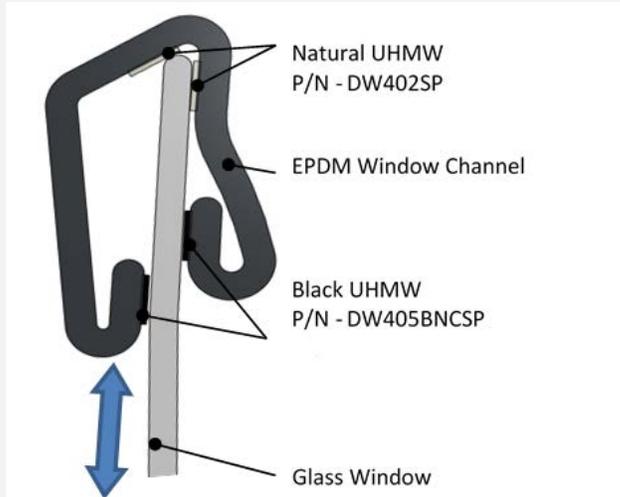


For automotive OEMs and tier suppliers, DeWAL® UHMW-PE film is used in glass run channel weather strip. The UHMW-PE film improves processing, performance, and durability over traditional flocking methods.

Proven in the field over many years by leading global automotive OEMs and weather strip manufacturers, the product has been installed across a wide range of vehicle platforms.

Application and Processing

DeWAL® UHMW-PE provides a stable, robust, yet low friction surface as part of the integrated EPDM window channel. It is layered onto the extrusion in-line during the manufacturing process.



Splice options:



Butt - Aligned end to end and held together with tape on both top and bottom.



Over wrap - Ends are overlapped by 1/4" and sealed with heat and pressure. The trailing edge is layered on top.

Products Available:

DW 402: Natural UHMW-PE film.

DW 405BNC: Black, non-conductive UHMW-PE film.

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Taber Abrasion Weight Loss

PRODUCT	THICKNESS, mm (mils)	WEIGHT LOSS	% CHANGE
DW 402	0.076 (3)	0.037	3.058
DW 402	0.127 (5)	0.017	1.098
DW 402	0.508 (20)	0.025	0.57
DW 405BNC	0.076 (3)	0.038	3.346
DW 405BNC	0.127 (5)	0.018	1.068
DW 405BNC	0.508 (20)	0.016	0.37

Test Conditions: 1000g sample underwent 1000 cycles against two different Taber Abrasion Wheels.

Test Method: ASTM-D348917

Coefficient of Friction

PRODUCT	DW 402	DW 405BNC
Thickness mm (mil)	0.25 (10)	0.20 (8)
Average CoF (μ)	0.209	0.187
Standard Deviation	0.011	0.006

Test Method: ASTM-D 1894

- All metric conversions are approximate.
- Additional technical information is available.
- Values should not be used for specification limits.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com