

# DeWAL<sup>®</sup> Solutions for Sealing

### Features:

- High abrasion resistance
- Dimensional stability
- UL certified
  - o File No. E179854 (DW204-2HD)
  - o File No. E515707 (DW423-10)
- Strong adhesive for permanent application

## Benefits:

- Excellent chemical resistance
- Tensilized PTFE enhances strength for extended use during manufacturing process
- UHMW solutions provide excellent abrasion / wear resistance



DeWAL® pressure sensitive tapes from Rogers leverage the strong properties of PTFE and UHMW films and combine them with proprietary adhesives to create specialized tapes that make excellent sealing solutions.

DeWAL<sup>®</sup> UHMW-PE tapes and films combine excellent abrasion resistance with permanent acrylic adhesives to provide solutions for weather sealing, vibration protection and noise abatement in automotive applications.

DeWAL® PTFE tape products are comprised of highly tensilized PTFE films which are coated with high temperature silicone adhesives and die cut to finished shapes, creating water sealing gaskets that can be used to prevent leaks in high temperature applications for the lifetime of the part.



The information contained in this Application Note is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Application Note will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers DeWAL Materials for each application. The Rogers logo, DeWAL and the DeWAL logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2023 Rogers Corporation. All rights reserved. 0823-PDF - Publication #175-213 www.rogerscorp.com

# DeWAL<sup>®</sup> Solutions for Sealing



### UHMW-PE Tapes for Vibration Protection are offered in 3-, 5-, 10-, and 20-mil thick backing options

PRODUCT	BACKING SUBSTRATE	ADHESIVE SYSTEM	ADHESIVE THICKNESS	ADHESION Typical [ASTM-D 1000]	TENSILE STRENGTH Typical [ASTM-D 3759]	ELONGATION Typical [ASTM-D 3759]	Taber Abrasion Test Data (Weight Loss after 1000 cycles)
			mm (in)	g/cm (oz./in)	MPa (psi)	%	g (lbs)
DW403 Series	Natural UHMW	Elastomeric	0.1245 (0.0049 +/- 0.0007)	1098 - 1272 (98 - 114)	45 - 52 (6718 - 8623)	358 - 480	0.17 - 0.37 (0.000037- 0.000082)
DW423 Series		Acrylic	0.0058 (0.0023 +/- 0.0003)	714 - 882 (64 - 79)	46 - 59 (6718 - 8623)	358 - 480	0.17 - 0.37 (0.000037- 0.000082)
DW750 Series	Black UHMW	Acrylic	0.0058 (0.0023 +/- 0.0003)	625 - 882 (56 - 79)	45 - 52 (6495 - 7520)	295 - 441	Testing available upon request

·DW403 is also offered in a Black Non-Conductive version (DW403BNC).

#### **Tensilized PTFE Tapes for Sealing Gaskets**

PRODUCT	COLOR	ADHESIVE SYSTEM	BACKING THICKNESS Minimum	ADHESIVE THICKNESS Minimum	ADHESION Typical [ASTM-D 1000]	TENSILE STRENGTH Typical [ASTM-D 3759]	ELONGATION Typical [ASTM-D 3759]	DIELECTRIC STRENGTH Typical [ASTM-D149]
			mm (in)	mm (in)	g/cm (oz./in)	MPa (psi)	%	kV/m (V/mil)
DW204-2HD	Brown	Silicone	0.043	0.030	390	121	147	134,409.4
			(0.0017)	(0.0012)	(35)	(17,535)	147	(3,414)
DW FST	Purple	Silicone	0.056	0.025	390	129	140	131,614.2
			(0.0022)	(0.0010)	(35)	(18,769)		(3,343)

Typical values shown are from testing at date of manufacture and should not be used for specification limits. All metric conversions are approximate.



The information contained in this Application Note is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Application Note will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers DeWAL Materials for each application. The Rogers logo, DeWAL and the DeWAL logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2023 Rogers Corporation. All rights reserved. 0823-PDF • Publication #175-213 www.rogerscorp.com