



250 Chester Street
Painesville, Ohio 44077
Phone: 866-GO-AVERY (866-462-8379)
Fax: 888-358-4469
email: psa.tape@averydennison.com
URL: tapes.averydennison.com

TEST REPORT

PRODUCT: FT 8392 12 PT BD
SUPPORT: NITRILE VINYL FOAM
SUBSTRATE: ABS
CERT NO.: 221215 - 1445



GMW 16443-TYPE-II-EXTERIOR-CYCLE-C

OEM Rev Date: Aug 18
Adhesion Performance Requirements For Adhesive Backed Light Trim and Foam
Type II - An adhesive backed foam composite that is retained by the adhesive for the life of the vehicle

Passing Type II Meets and Exceeds 3.5.1 Type I Exposure Requirements

TAPE REQUIREMENTS:

3.5.2 TYPE-II Exposure

SECTION 3.3.3 Edge Adhesion

3.5.3, Initial, As Received - 24 hrs @ RT

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

- 17 hrs @ -30°C
- 72 hrs @ 70°C
- 24 hrs @ 38°C / 100% RH
- 7 hrs @ -30°C
- 24 hrs @ 38°C / 100% RH
- 7 hrs @ 70°C
- 24 hrs @ 38°C / 100% RH

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.4 Peel Adhesion

ISO 8510-2

3.5.3, Initial, As Received - 24 hrs @ RT

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C

- 17 hrs @ -30°C
- 72 hrs @ 70°C
- 24 hrs @ 38°C / 100% RH
- 7 hrs @ -30°C
- 24 hrs @ 38°C / 100% RH
- 7 hrs @ 70°C

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.5.8 Cold Shock

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION: 3.7.1 Release Liner

3.7.2, Liner Removal @ RT

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	Securely Bonded	Stable, No Lifting or Removal		Pass
	525 N / m	538.8	AF-P	Pass
	525 N / m	885.6	AF-P	Pass
	525 N / m	779.9	AF-P	Pass
	525 N / m	574.4	AF-P	Pass
	525 N / m	944.5		Pass
	Specification	Results		Status
	No Separation from 2	No Impact Separation		Pass
	Specification	Results		Status
	< 65 N / m	13.4		Pass

CERTIFIED BY:

Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE: 1-1-24

Materials tested to OEM requirements @ 72°F +/- 2°F and 50% RH +/- 5%. Test uncertainty and minor exclusions are available online or upon request.

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Status opinion based upon measurements obtained by personnel with appropriate training and professional experience.

This laboratory is not accredited for the calibrations or tests marked *.

Appendix A Table A2

PRODUCT: FT 8392 12 PT BD
 SUPPORT: NITRILE VINYL FOAM
 SUBSTRATE: ABS
 CERT NO.: 221215 - 1445

Table A2: GMW16443 Type II Applications Test Data Form

Section	Test	Standard	Requirements	Sample	Visual Edge Adhesion	Peel N/m	Failure Mode
3.5.3	Initial, As Received - 24 hrs @ RT	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	560.4	AF-P
				2	Stable, No Lifting or Removal	464.1	AF-P
				3	Stable, No Lifting or Removal	591.9	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	886.1	AF-P
				2	Stable, No Lifting or Removal	898.4	AF-P
				3	Stable, No Lifting or Removal	872.1	AF-P
3.5.5	After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	679.5	AF-P
				2	Stable, No Lifting or Removal	851.1	AF-P
				3	Stable, No Lifting or Removal	809.1	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	577.9	AF-P
				2	Stable, No Lifting or Removal	565.7	AF-P
				3	Stable, No Lifting or Removal	579.7	AF-P
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	644.5	AF-P		
		2	Stable, No Lifting or Removal	579.7	AF-P		
		3	Stable, No Lifting or Removal	625.2	AF-P		

Section	Test	Standard	Requirements	Sample	Result
3.6	Tape Wet Out, GMW15851	GMW 15851 is restricted and we cannot purchase	85% Tape Wet Out	1	Not Tested
				2	Not Tested
				3	Not Tested
3.7.1	Release Liner Contact	To Be Determined @ Tier	No Lift Prior To Vehicle Install	1	TBD
				2	TBD
				3	TBD
3.7.2	Liner Removal	ISO 8510-2	Less Than Or Equal To 65 N/m	1	12.3
				2	15.8
				3	12.3