



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 1123
SUPPORT: 5 MIL BLACK UHMWPE
SUBSTRATE: PAINTED METAL
CERT NO.: 221215 - 1429



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, 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, 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>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	Securely Bonded	Stable, No Lifting or Removal	Pass

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	1170.4	CF	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	525 N / m	1157.0	CF	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	525 N / m	1076.4	CF	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	525 N / m	991.8	CF	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	525 N / m	1117.9	CF	Pass

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	No Separation from 2	No Impact Separation	Pass

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.7.2, Liner Removal @ RT	< 65 N / m	23.9	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 1123
 SUPPORT: 5 MIL BLACK UHMWPE
 SUBSTRATE: PAINTED METAL
 CERT NO.: 221215 - 1429

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	1203.1	CF
				2	Stable, No Lifting or Removal	1189.1	CF
				3	Stable, No Lifting or Removal	1119.1	CF
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	1147.1	CF
				2	Stable, No Lifting or Removal	1164.6	CF
				3	Stable, No Lifting or Removal	1159.3	CF
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1101.5	CF
				2	Stable, No Lifting or Removal	1017.5	CF
				3	Stable, No Lifting or Removal	1110.3	CF
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	943.9	CF
				2	Stable, No Lifting or Removal	1001.7	CF
				3	Stable, No Lifting or Removal	1029.7	CF
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1140.1	CF		
		2	Stable, No Lifting or Removal	1108.6	CF		
		3	Stable, No Lifting or Removal	1105.1	CF		

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	24.5
				2	24.5
				3	22.8