



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 8327 12 PT BD  
SUPPORT: EPDM FOAM  
SUBSTRATE: PP  
CERT NO.: 221215 - 1444



**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

CERTIFIED BY:

Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE: 1-1-24

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	<b>Securely Bonded</b>	Stable, No Lifting or Removal	<b>Pass</b>
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	<b>Securely Bonded</b>	Stable, No Lifting or Removal	<b>Pass</b>
3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	<b>Securely Bonded</b>	Stable, No Lifting or Removal	<b>Pass</b>
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	<b>Securely Bonded</b>	Stable, No Lifting or Removal	<b>Pass</b>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	<b>Securely Bonded</b>	Stable, No Lifting or Removal	<b>Pass</b>
<b>SECTION 3.4 Peel Adhesion</b> (ISO 8510-2)	<u>Specification</u>	<u>Results</u>	<u>Mode</u> <u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	<b>525 N / m</b>	735.5	AF-P <b>Pass</b>
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	<b>525 N / m</b>	733.2	AF-P <b>Pass</b>
3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	<b>525 N / m</b>	852.9	AF-P <b>Pass</b>
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	<b>525 N / m</b>	1106.8	AF-P <b>Pass</b>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	<b>525 N / m</b>	926.4	<b>Pass</b>
<b>SECTION 3.5.8 Cold Shock</b>	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	<b>No Separation from 2</b>	No Impact Separation	<b>Pass</b>
<b>SECTION: 3.7.1 Release Liner</b>	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.7.2, Liner Removal @ RT	<b>&lt; 65 N / m</b>	11.7	<b>Pass</b>

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 8327 12 PT BD  
 SUPPORT: EPDM FOAM  
 SUBSTRATE: PP  
 CERT NO.: #####

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	781.1	AF-P
				2	Stable, No Lifting or Removal	859.9	AF-P
				3	Stable, No Lifting or Removal	565.7	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	814.3	AF-P
				2	Stable, No Lifting or Removal	691.8	AF-P
				3	Stable, No Lifting or Removal	693.5	AF-P
3.5.5	After Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	838.9	AF-P
				2	Stable, No Lifting or Removal	866.9	AF-P
				3	Stable, No Lifting or Removal	852.9	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	1134.8	AF-P
				2	Stable, No Lifting or Removal	1229.4	AF-P
				3	Stable, No Lifting or Removal	956.2	AF-P
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	917.7	AF-P		
		2	Stable, No Lifting or Removal	929.9	AF-P		
		3	Stable, No Lifting or Removal	931.7	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	10.5
				2	12.3
				3	12.3