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TEST REPORT

PRODUCT: FBD 8393
SUPPORT: EPDM FOAM
SUBSTRATE: TPO
CERT NO.: 221215 - 1448



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>
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

<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
525 N / m	1046.1	AF-P	Pass
525 N / m	667.8	CF	Pass
525 N / m	1084.0	AF-P	Pass
525 N / m	528.3	AF-P	Pass
525 N / m	1136.0	CF	Pass

<u>Specification</u>	<u>Results</u>	<u>Status</u>
No Separation from 2	No Impact Separation	Pass

<u>Specification</u>	<u>Results</u>	<u>Status</u>
< 65 N / m	12.8	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.

This certificate or report shall not be reproduced except in full, without the written approval of the Avery Dennison® Performance Tapes.

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: **FBD 8393**
 SUPPORT: **EPDM FOAM**
 SUBSTRATE: **TPO**
 CERT NO.: 221215 - 1448

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	1217.1	AF-P
				2	Stable, No Lifting or Removal	1169.8	AF-P
				3	Stable, No Lifting or Removal	751.3	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	527.1	CF
				2	Stable, No Lifting or Removal	655.0	CF
				3	Stable, No Lifting or Removal	821.3	CF
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1185.6	AF-P
				2	Stable, No Lifting or Removal	961.4	AF-P
				3	Stable, No Lifting or Removal	1105.1	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	530.6	AF-P
				2	Stable, No Lifting or Removal	542.9	AF-P
				3	Stable, No Lifting or Removal	511.4	AF-P
		1					
		2					
		3					
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1108.6	CF		
		2	Stable, No Lifting or Removal	1080.5	CF		
		3	Stable, No Lifting or Removal	1218.9	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	15.8
				2	14.0
				3	8.8