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TEST REPORT

PRODUCT: **A501A**
SUPPORT: **2 MIL PET**
SUBSTRATE: **PP**
CERT NO.: 230109 - 1108



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

Tested in accordance with JDC protocols and provided as product information only. Actual product and application substrates would need to be tested for OEM certification.

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>Mode</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
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	1461.7	CF	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	525 N / m	1089.9	AF-P	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	525 N / m	1114.4	AF-P	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	525 N / m	1736.1	CF	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	525 N / m	1791.5	CF	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	No Separation from 2	No Impact Separation		Pass
3.7.2, Liner Removal @ RT	< 65 N / m	14.6		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: **A501A**
 SUPPORT: **2 MIL PET**
 SUBSTRATE: **PP**
 CERT NO.: 230109 - 1108

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	1747.8	CF
				2	Stable, No Lifting or Removal	950.9	CF
				3	Stable, No Lifting or Removal	1686.5	CF
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	1112.1	AF-P
				2	Stable, No Lifting or Removal	1089.3	AF-P
				3	Stable, No Lifting or Removal	1068.3	AF-P
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1117.3	AF-P
				2	Stable, No Lifting or Removal	1143.6	AF-P
				3	Stable, No Lifting or Removal	1082.3	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	1765.3	CF
				2	Stable, No Lifting or Removal	1737.3	CF
				3	Stable, No Lifting or Removal	1705.7	CF
		1					
		2					
		3					
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1763.5	CF		
		2	Stable, No Lifting or Removal	1817.8	CF		
		3	Stable, No Lifting or Removal	1793.3	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	15.8
				3	12.3