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**TEST REPORT**

PRODUCT: A5709A  
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	<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, 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>
3.5.3, Initial, As Received - 24 hrs @ RT	<b>525 N / m</b>	527.7	AF-P	<b>Pass</b>
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	<b>525 N / m</b>	575.6	AF-P	<b>Pass</b>
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	<b>525 N / m</b>	751.9	AF-P	<b>Pass</b>
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	<b>525 N / m</b>	594.3	AF-P	<b>Pass</b>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	<b>525 N / m</b>	664.3		<b>Pass</b>
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>
3.7.2, Liner Removal @ RT	<b>&lt; 65 N / m</b>	15.2		<b>Pass</b>

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: **A5709A**  
 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	525.4	AF-P
				2	Stable, No Lifting or Removal	534.1	AF-P
				3	Stable, No Lifting or Removal	523.6	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	642.7	AF-P
				2	Stable, No Lifting or Removal	532.4	AF-P
				3	Stable, No Lifting or Removal	551.7	AF-P
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	774.1	AF-P
				2	Stable, No Lifting or Removal	733.8	AF-P
				3	Stable, No Lifting or Removal	747.8	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	563.9	AF-P
				2	Stable, No Lifting or Removal	588.4	AF-P
				3	Stable, No Lifting or Removal	630.5	AF-P
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	648.0	AF-P		
		2	Stable, No Lifting or Removal	679.5	AF-P		
		3	Stable, No Lifting or Removal	665.5	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	15.8
				2	17.5
				3	12.3