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TEST REPORT

PRODUCT: SA 1123
 SUPPORT: 2 MIL PET
 SUBSTRATE: ABS
 CERT NO.: 241010 - 0952



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: 3.6 Tape Wet Out*

3.6, Tape Wet Out*

SECTION: 3.7.2 Release Liner

3.7.2, Liner Removal @ RT

CERTIFIED BY:

David Nichols II, 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	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	1831.1	SP	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	525 N / m	2046.8	SP	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	525 N / m	1752.3	SP	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	525 N / m	1938.9	SP	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	525 N / m	1766.9	SP	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>	
3.6, Tape Wet Out*	85 %	Not Tested	Not Tested	
	<u>Specification</u>	<u>Results</u>	<u>Status</u>	
3.7.2, Liner Removal @ RT	< 65 N / m	7.2	Pass	

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: SA 1123
 SUPPORT: 2 MIL PET
 SUBSTRATE: ABS
 CERT NO.: 241010 - 0952

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	1818.5	FALSE
				2	Stable, No Lifting or Removal	1887.9	FALSE
				3	Stable, No Lifting or Removal	1786.8	FALSE
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	2138.0	FALSE
				2	Stable, No Lifting or Removal	2031.5	FALSE
				3	Stable, No Lifting or Removal	1970.9	FALSE
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1705.0	FALSE
				2	Stable, No Lifting or Removal	1861.8	FALSE
				3	Stable, No Lifting or Removal	1690.0	FALSE
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	1962.1	FALSE
				2	Stable, No Lifting or Removal	2062.5	FALSE
				3	Stable, No Lifting or Removal	1792.2	FALSE
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1505.9	FALSE		
		2	Stable, No Lifting or Removal	1913.8	FALSE		
		3	Stable, No Lifting or Removal	1881.0	FALSE		

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
3.7.2	Release Liner Contact	To Be Determined @ Tier	No Lift Prior To Vehicle Install	1	Not Tested
				2	Not Tested
				3	Not Tested
3.7.2	Liner Removal	ISO 8510-2	Less Than or Equal To 65 N/m	1	7.2
				2	7.0
				3	7.4