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TEST REPORT

PRODUCT: FT-0031
SUPPORT: Polyolefin
SUBSTRATE: SS
CERT NO.: 240513 - 0944



GMW 16443-TYPE-II-EXTERIOR-CYCLE-W

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, 5x Cycle W

- 17 hrs @ -30°C
- 72 hrs @ 80°C
- 24 hrs @ 40°C / 95% RH
- 7 hrs @ -30°C
- 48 hrs @ 40°C / 95% 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, 5x Cycle W

- 17 hrs @ -30°C
- 72 hrs @ 80°C
- 24 hrs @ 40°C / 95% RH
- 7 hrs @ -30°C
- 48 hrs @ 40°C / 95% RH

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

<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	581.0	AF-P	Pass
525 N / m	733.8	AF-P	Pass
525 N / m	758.9	AF-P	Pass
525 N / m	700.1	AF-P	Pass
525 N / m	609.7	AF-P	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>
85 %	Not Tested	Not Tested

<u>Specification</u>	<u>Results</u>	<u>Status</u>
< 65 N / m	6.9	Pass

CERTIFIED BY:

David Nichols II, Automotive Lab Technician

ISSUE DATE: 1-1-25

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-0031
 SUPPORT: Polyolefin
 SUBSTRATE: SS
 CERT NO.: 240513 - 0944

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	580.2	AF-P
				2	Stable, No Lifting or Removal	588.8	AF-P
				3	Stable, No Lifting or Removal	574.1	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	751.3	AF-P
				2	Stable, No Lifting or Removal	763.9	AF-P
				3	Stable, No Lifting or Removal	686.1	AF-P
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	759.5	AF-P
				2	Stable, No Lifting or Removal	727.1	AF-P
				3	Stable, No Lifting or Removal	790.2	AF-P
3.5.6	Cycle Exposure, GMW 14124, 5x Cycle W			1	Stable, No Lifting or Removal	666.9	AF-P
				2	Stable, No Lifting or Removal	720.6	AF-P
				3	Stable, No Lifting or Removal	712.8	AF-P
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	589.0	AF-P		
		2	Stable, No Lifting or Removal	601.9	AF-P		
		3	Stable, No Lifting or Removal	638.3	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
3.7.2	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	7.0
				2	7.0
				3	6.8