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**TEST REPORT**

PRODUCT: FT 1903  
SUPPORT: 2 MIL PET  
SUBSTRATE: PP  
CERT NO.: 250217 - 0918



**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>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	1968.8	SP	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	525 N / m	1165.6	STAIN	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	525 N / m	1981.9	SP	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C	525 N / m	1765.0	PS	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	525 N / m	1604.3	SP	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	No Separation from 2	No Impact Separation		Pass
3.6, Tape Wet Out*	85 %	Not Tested		Not Tested
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: FT 1903  
 SUPPORT: 2 MIL PET  
 SUBSTRATE: PP  
 CERT NO.: 250217 - 0918

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	1999.4	FALSE
				2	Stable, No Lifting or Removal	2050.0	FALSE
				3	Stable, No Lifting or Removal	1856.9	FALSE
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	1283.5	FALSE
				2	Stable, No Lifting or Removal	1045.5	FALSE
				3	Stable, No Lifting or Removal	1167.7	FALSE
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1979.5	FALSE
				2	Stable, No Lifting or Removal	1991.2	FALSE
				3	Stable, No Lifting or Removal	1974.9	FALSE
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	1749.9	FALSE
				2	Stable, No Lifting or Removal	1829.4	FALSE
				3	Stable, No Lifting or Removal	1715.9	FALSE
		1					
		2					
		3					
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1316.4	FALSE		
		2	Stable, No Lifting or Removal	1826.2	FALSE		
		3	Stable, No Lifting or Removal	1670.4	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