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TEST REPORT

PRODUCT: **FT 1943 PP**
 SUPPORT: **FLOCK**
 SUBSTRATE: **TPO**
 CERT NO.: **221214 - 0904**



GMW 14892-CODE-3-CYCLE-M
 OEM Rev Date: Nov 20
 Adhesive Requirements for Bonded Interior Parts
 CODE 3 - Not Exposed To Direct Sunlight

TAPE REQUIREMENTS:

SECTION: **3.2.2 Visual Evaluation**

3.2.2.1, GMW 14124 CYCLE-M 2x, 168 hrs @ 85°C

<u>Specification</u>	<u>Results</u>	<u>Status</u>
No Ooze, Lift, Bubbling or Loss of Adhesion	No Ooze, Lifting or Adhesion Loss	Pass

3.2.2.1, Natural Weathering

Not Tested	Not Tested
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SECTION: **3.2.2.2 Edge Adhesion**

3.1.5.2, Environmental Cycles 2(x), GMW 14124 CYCLE-M

<u>Specification</u>	<u>Results</u>	<u>Status</u>
No Peeling, Lifting, Unwrapping of Edge Wraps, etc	No Lifting or Unwrapping	Pass

SECTION: **3.2.3.2 Peel Adhesion**

3.2.3.2, As Received, 72 hrs @ RT

<u>Specification</u>	GMW14444	<u>Results</u>	<u>Mode</u>	<u>Status</u>
525 N / m		727.4	ADHESIVE	Pass

3.2.3.2.1, Humidity - GMW 14729 Opt A, 144 hrs @ 38°C / 100% RH, 1 hr @ RT

525 N / m	990.1	COHESIVE	Pass
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3.2.3.2.2, Oven Aged, 24 hrs @ 85°C, < 40s

525 N / m	589.6	COHESIVE	Pass
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3.2.3.2.3, Environmental Cycles 2(x), GMW 14124 CYCLE-M

23 hrs @ 40°C / 95% RH
 1 hr @ RT
 18 hrs @ 85°C
 1 hr @ RT
 4 hrs @ -30°C
 1 hr @ RT

525 N / m	1180.9	COHESIVE	Pass
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CERTIFIED BY:



Jake Cowdrick, Automotive Application Specialist

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

Company Name _____

Report Number: 221214 - 0904 _____

PRODUCT: FT 1943 PP
 SUPPORT: FLOCK
 SUBSTRATE: TPO

Table A1: Visual Evalutaion

Test Class	Specification	Requirements	Results - Triplicate		
			Part 1	Part 2	Part 3
Visual Evalutaion 3.2.2	GMW 14444 / 14892	3.2.2.1 No color transfer, bubble formation, and/or delamiantion after being exposed to dimensional stability test	No Ooze, Lifting or Adhesion Loss	No Ooze, Lifting or Adhesion Loss	No Ooze, Lifting or Adhesion Loss
		3.2.2.1 No color transfer, bubble formation, and/or delamiantion after being exposed to natural weathering	Not Tested	Not Tested	Not Tested
		3.2.2.2 No peeling, lifting, unwrapping of edge wraps after being exposed to 2 Cycles M	No Lifting or Unwrapping	No Lifting or Unwrapping	No Lifting or Unwrapping

Table A2: 180° Peel Adhesion

Test Class	Specification	Requirements	Results - Triplicate					
			Units	Failure Mode	Units	Failure Mode	Units	Failure Mode
180° Average Peel Strength, As Received, 72 hrs @ RT	ISO 8510-2	GMW 14444 Table 5 - Minimum of 525 N/m or Cohesive Failure of One or Both of the Adherends	877.39	ADHESIVE	654.97	ADHESIVE	649.72	ADHESIVE
180° Average Peel Strength, Humidity - GMW 14729 Opt A, 144 hrs @ 38°C / 100% RH, 1 hr @ RT			1241.65	COHESIVE	1182.11	COHESIVE	546.40	COHESIVE
180° Average Peel Strength, Oven Aged, 24 hrs @ 85°C, < 40s			527.13	COHESIVE	607.69	COHESIVE	633.96	COHESIVE
180° Average Peel Strength, Environmental Cycles 2(x), GMW 14124 CYCLE-M			1162.84	COHESIVE	1231.14	COHESIVE	1148.83	COHESIVE

Table A3: Coupon Level Rigid to Rigid Test

Test Class	Specification	Requirements	Results - Triplicate		
			Part 1	Part 2	Part 3
	GMW 14892				