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TEST REPORT

PRODUCT: **FT 3043**
 SUPPORT: **5 MIL BLACK UHMWPE**
 SUBSTRATE: **TPO**
 CERT NO.: **221214 - 0905**



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

3.2.2.1, Natural Weathering

Specification	Results	Status
No Ooze, Lift, Bubbling or Loss of Adhesion	No Ooze, Lifting or Adhesion Loss	Pass
	Not Tested	Not Tested

SECTION: **3.2.2.2 Edge Adhesion**

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

Specification	Results	Status
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

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


3.2.3.2.2, Oven Aged, 24 hrs @ 85°C, < 40s

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

Specification	GMW14444	Results	Mode	Status
525 N / m		880.3	ADHESIVE	Pass
525 N / m		1570.3	COHESIVE	Pass
525 N / m		527.7	COHESIVE	Pass
525 N / m		1196.7	COHESIVE	Pass

CERTIFIED BY:


 Jake Cowdrick, Automotive Application Specialist

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.

This certificate or report shall not be reproduced except in full, without the written approval of the Avery Dennison Performance Tapes.

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 - 0905 _____

PRODUCT: FT 3043
 SUPPORT: 5 MIL BLACK UHMWPE
 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 delamination 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 delamination 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	737.28	ADHESIVE	1087.54	ADHESIVE	816.09	ADHESIVE
180° Average Peel Strength, Humidity - GMW 14729 Opt A, 144 hrs @ 38°C / 100% RH, 1 hr @ RT			1665.46	COHESIVE	1528.86	COHESIVE	1516.60	COHESIVE
180° Average Peel Strength, Oven Aged, 24 hrs @ 85°C, < 40s			465.84	COHESIVE	413.30	COHESIVE	704.01	COHESIVE
180° Average Peel Strength, Environmental Cycles 2(x), GMW 14124 CYCLE-M			1229.39	COHESIVE	1001.73	COHESIVE	1358.99	COHESIVE

Table A3: Coupon Level Rigid to Rigid Test					
Test Class	Specification	Requirements	Results - Triplicate		
			Part 1	Part 2	Part 3
	GMW 14892				