



250 Chester Street  
Painesville, Ohio 44077  
Phone: 866-GO-AVERY (866-462-8379)  
Fax: 888-358-4469  
email: psa.tape@averydennison.com  
URL: tapes.averydennison.com

## 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

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

3.2.2.1, Natural Weathering

Not Tested

**Not Tested**

#### 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>
<b>No Peeling, Lifting, Unwrapping of Edge Wraps, etc</b>	No Lifting or Unwrapping	<b>Pass</b>

#### SECTION: 3.2.3.2 Peel Adhesion

3.2.3.2, As Received, 72 hrs @ RT

<u>Specification</u>	<u>GMW14444</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
<b>525 N / m</b>		880.3	ADHESIVE	<b>Pass</b>

3.2.3.2.1, Humidity - GMW 14729 Opt A, 144 hrs @ 38°C / 100% RH, 1 hr @ RT **525 N / m** 1570.3 COHESIVE **Pass**

3.2.3.2.2, Oven Aged, 24 hrs @ 85°C, < 40s **525 N / m** 527.7 COHESIVE **Pass**

3.2.3.2.3, Environmental Cycles 2(x), GMW 14124 CYCLE-M **525 N / m** 1196.7 COHESIVE **Pass**

23 hrs @ 40°C / 95% RH

1 hr @ RT

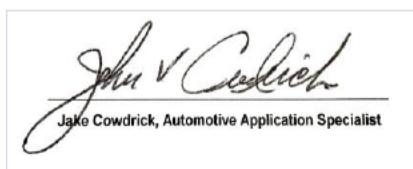
18 hrs @ 85°C

1 hr @ RT

4 hrs @ -30°C

1 hr @ RT

CERTIFIED BY:



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 - 0905

PRODUCT: FT 3043

SUPPORT: 5 MIL BLACK UHMWPE

SUBSTRATE: TPO

Table A1: Visual Evaluation

Test Class	Specification	Requirements	Results - Triplicate		
			Part 1	Part 2	Part 3
Visual Evaluation 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				