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OEM Rev Date: Mar 22

PRODUCT:

SUPPORT:

CERT NO .:

SUBSTRATE:

FORD WSS-M99P32-E1

Performance, Acoustical And Insulators, Interior Assemblies

**TEST REPORT** 

FLOCK

TPO

**FT 0900X PET** 

240829 - 0539

Horizontal or Vertical Parts Above the Belt Line - Pillars; upper quarter panels; hard instrument panels **TAPE REQUIREMENTS:** SECTION: 3.3 Weight Specification Results Status 277 2 3.3.1 Weight per Unit Area (Non-Foams) Reported g/m<sup>2</sup> Reported SECTION: 3.4 Odor\* Specification ISO 3795 Results Status 3.4.1 Odor, Condition 1 - 24 hrs @ RT, Deionized Water 3 Max Rating Not Tested **Not Tested** 3.4.2 Odor, Condition 2 - 24 hrs @ 40°C, Deionized Water 3 Max Rating Not Tested **Not Tested** Not Tested 3.4.3 Odor, Condition 3 - 2 hrs @ 65°C **Not Tested** 3 Max Rating SECTION: 3.5 Fogging Specification SAE J1756 Results Status 3.5, 3 hrs @ 100°C, 21°C Cooling, 16 hrs @ RT > 70 Units 74.9 **Pass Specification** Results SECTION: 3.6 Flammability ISO 3795 Status 3.6, Initial, Component < 100 mm/min SE / NBR **Pass Construction Properties** SECTION 3.7 Resistance To Mildew\* **Specification Evaluation** Status 4 1 No Significant Odor or Mold Growth 3.7.1, 7 Days @ 38°C / 98% RH No Evidence of Mildew Growth, Objectionable Odor or Separation **Pass** SECTION: 3.7.2 Environmental Testing 3.7.2.1, Short Term Environmental Cycling **Specification** FLTM BO 040-01 A\* (c) **Evaluation Status** No Wrinkling, Good, Stable, No Ooze, Odor, Warping or Lifting 5 hrs @ -30°C **Pass** Blistering, Warping, 30 mins @ RT Staining, Odor or 5 hrs @ 80°C Delamination 30 mins @ RT 2 hrs @ 50°C / 95% RH 30 mins @ RT 5 hrs @ -30°C 30 mins @ RT 5 hrs @ 80°C 3.7.2.2, Long Term Environmental Cycling, 7 Days @ 80°C FLTM BO 040-01 B\* (c) Good, Stable, No Ooze, Odor, Warping or Lifting **Pass** SECTION: 3.8 **Physical Properties Specification** ASTM D5034\* (d) Results **Mode Status** 3.8.1, Original Breaking Strength 35 N/In min 217.3 TEAR **Pass Climate Control Applications Specification** ASTM D5034\* (d) Results | Mode % Change **Status** < 30 % Change 220.5 TEAR 1% Reported < 30 % Change 2298 TEAR 6% Reported **Specification** ASTM D3574 F\* (e) SECTION: 3.8.2 Tear Resistance (Foam Materials Only) Results **Status** 

SECTION: 3.8 3.8.1.1, Change After Short Term 3.7.2.1 Aging 3.8.1.2, Change After Long Term 3.7.2.2 Aging

3.8.2, Finished Part, Tear Resistance (Foam Materials Only) Reported N/m Not Applicable Not Applicable

SECTION: 3.8.3 Compression Force Deflection Test (Foam Materials Only)

Results Status Compression Force Deflection Test (Foam Materials Only) Not Applicable 250 mm (10 in) Not Applicable

3.8.3.1, Finished Part, Compression Force Deflection

SECTION: 3.8.4 Constant Deflection Compression Set Test (Floor Foam Materials Only)

Not Applicable 3.8.4.1, Original Breaking Strength Report Value % Not Applicable Not Applicable 3.8.4.2, Change After Short Term 3.7.2.1 Aging < 40 % Change Not Applicable Not Applicable 3.8.4.3, Change After Long Term 3.7.2.2 Aging < 10 % Change Not Applicable

Results

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Status

SECTION: 3.8.5 Peel Strength (Laminates Only) **Specification** FLTM BN 151-05\* (f) Results Status 3.8.5, Peel Strength (Engine and Underbody Laminates Only) 6 N / 50 mm min Not Tested **Not Tested** 

Specification SECTION: 3.8.6 Moisture Absorption\* Results **Status** 

3.8.6, Suspended 24 hrs @ 38°C / 95% RH 16.8 30 % max **Pass** SECTION: 3.9

Adhesion Strength (PSA Tapes for NVH only) ASTM D1000 FLTM BO 040-01\* (h) **Evaluation** Specification Results Status 374.4 300 N / m - No Adhesion Failure No Lifting or Appearance Changes **Pass** 225 N/m - No Adhesion Failure 502.8 3.9.2 After Short Term Environmental Cycling No Lifting or Appearance Changes **Pass** 3.9.2 After Long Term Environmental, 168 hrs @ 100°C 225 N / m - No Adhesion Failure 359.0 No Lifting or Appearance Changes Pass

CERTIFIED BY: 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. 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.

David Nichols II. Automotive Lab Technician

## **TEST REPORT**



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FORD WSS-M99P32-E1

OEM Rev Date: Mar 22

Performance, Acoustical And Insulators, Interior Assemblies

Horizontal or Vertical Parts Above the Belt Line - Pillars; upper quarter panels; hard instrument panels

**TEST METHOD EXPLANATION:** 

SECTION: 3.4 Odor\*

ISO 3795

TESTING LABORATORY

\*(a) Test performed by accredited personnel. Due to the nature of this test, accreditation to the specific test method has not been deemed necessary or desired (subjective)

SECTION: 3.5 Fogging

SAE J1756 is called out on our Scope

SAE J1756

ISO 3795

SECTION: 3.6 Flammability

\*(b) ISO 3795 is technically equivalent to FMVSS 302. Our lab scope includes FMVSS 302, which was used.

SECTION: 3.7.2 Environmental Testing

FLTM BO 040-01 A\* (c)

\*(c) FLTM BO 040-01 A is outside of our scope however we are accredited to perform environmental simulations under Customer Specifications and ASTM D4332 which are listed on our scope.

SECTION: 3.7.2 Environmental Testing

FLTM BO 040-01 B\* (c)

\*(c) FLTM BO 040-01 B is outside of our scope however we are accredited to perform environmental simulations under Customer Specifications and ASTM D4332 which are listed on our scope.

Adhesion per ASTM D1000 has been added per Mat Spec drawing callouts

SECTION: 3.8 Physical Properties

ASTM D5034\* (d)

\*(d) ASTM D5034 is outside of our scope however we are accredited to perform CRE (constant rate of extension) tests, ASTM D1000 and ASTM D3300 which are listed on our scope.

SECTION: 3.8.2 Tear Resistance (Foam Materials Only)

ASTM D3574 F\* (e)

SECTION: 3.8.3 Compression Force Deflection Test (Foam Materials Only)

This test is not applicable to the substrate involved.

This test is not applicable to the substrate involved.

SECTION: 3.8.4 Constant Deflection Compression Set Test (Floor Foam Materials Only)

This test is not applicable to the substrate involved.

SECTION: 3.8.5 Peel Strength (Laminates Only)

FLTM BN 151-05\* (f)

\*(f) FLTM BN 151-05 is outside of our scope however we are accredited to perform CRE (constant rate of extension) tests, ASTM D1000 and ASTM D3300 which are listed on our scope.

SECTION: 3.8.6 Moisture Absorption\*

No method addressed within Ford WSS M99P32-E1

SECTION: 3.9 Adhesion Strength (PSA Tapes for NVH only)

ASTM D1000 FLTM BO 040-01\* (h)

8-29-2024

\*(h) FLTM BO 040-01 is outside of our scope however the test was performed by accredited personnel.

CERTIFIED BY:

ISSUE DATE:

Original Test Date:

1-1-25

Page 2 of 2

David Nichols II, Automotive Lab Technician

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.