

250 Chester Street

Painesville, Ohio 44077

866-GO-AVERY (866-462-8379) Phone:

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email: psa.tape@averydennison.com URL: tapes.averydenniso Thickness, Tape

**TAPE REQUIREMENTS:** SECTION: 3.3 Weight

3.3.1 Weight per Unit Area (Non-Foams)

SECTION: 3.4 Odor 3.4.1 Odor, Condition 1 - 24 hrs @ RT, Deionized Water 3.4.2 Odor, Condition 2 - 24 hrs @ 40°C, Deionized Water

3.4.3 Odor, Condition 3 - 2 hrs @ 65°C

SECTION: 3.5 Fogging

3.5, 3 hrs @ 100°C, 21°C Cooling, 16 hrs @ RT

SECTION: 3.6 Flammability

3.6, Initial, Component

**Construction Properties** 3.7 SECTION 3.7 Resistance To Mildew

3.7.1, 7 Days @ 38°C / 98% RH

SECTION: 3.7.2 Environmental Testing

3.7.2.1, Short Term Environmental Cycling

5 hrs @ -30°C

30 mins @ RT

5 hrs @ 80°C 30 mins @ RT

2 hrs @ 50°C / 95% RH

30 mins @ RT

5 hrs @ -30°C

30 mins @ RT

5 hrs @ 80°C

**TEST REPORT** 

FT 0900X PRODUCT:

SUPPORT: **FLOCK** 

SUBSTRATE: TPO CERT NO .: 231128 - 0906

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

Specification Results

**Specification** ISO 3795

3 Max Rating

Reported g/m<sup>2</sup>

3 Max Rating

Specification

> 70 Units

**Specification** 

< 100 mm / min

**Specification** 

3 Max Rating

SAE J1756

ISO 3795

ASTM D5034\* (d)

ASTM D5034\* (d)

ASTM D3574 F\* (e)

FLTM BN 151-05\* (f)

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

**Evaluation** No Significant Odor or Mold Growth

276.5

Results

Not Tested

Not Tested

Not Tested

Results

80.9

Results

SE / NBR

No Evidence of Mildew Growth, Objectionable Odor or Separation

**Specification** 

No Wrinkling, Blistering, Warping,

Staining, Odor or Delamination

**Specification** 

35 N / In min

**Specification** 

< 30 % Change

< 30 % Change

Specification

Reported N/m

250 mm (10 in)

Report Value %

< 40 % Change

< 10 % Change

Specification

6 N / 50 mm min

Specification

30 % max

Specification

300 N/m - No Adhesion Failure

225 N/m - No Adhesion Failure

225 N/m - No Adhesion Failure

**Evaluation** FLTM BO 040-01 A\* (c)

Good, Stable, No Ooze, Odor, Warping or Lifting

Status **Pass** 

ACCREDITED

TESTING LABORATORY

Status

Reported

<u>Status</u>

**Not Tested** 

**Not Tested** 

**Not Tested** 

Status

**Pass** 

Status

**Pass** 

Status

**Pass** 

**Pass** 

Status

**Pass** 

**Status** 

Reported

Reported

Status

**Pass** 

3.7.2.2, Long Term Environmental Cycling, 7 Days @ 80°C

SECTION: 3.8 **Physical Properties** 

3.8.1, Original Breaking Strength

**Climate Control Applications** 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

SECTION: 3.8.2 Tear Resistance (Foam Materials Only) 3.8.2, Finished Part, Tear Resistance (Foam Materials Only)

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

3.8.3.1, Finished Part, Compression Force Deflection

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

3.8.4.1, Original Breaking Strength

3.8.4.2, Change After Short Term 3.7.2.1 Aging

3.8.4.3, Change After Long Term 3.7.2.2 Aging

SECTION: 3.8.5 Peel Strength (Laminates Only) 3.8.5, Peel Strength (Engine and Underbody Laminates Only)

SECTION: 3.8.6 Moisture Absorption

3.8.6, Suspended 24 hrs @ 38°C / 95% RH

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

3.9.1 Original

3.9.2 After Short Term Environmental Cycling

3.9.2 After Long Term Environmental, 168 hrs @ 100°C

**CERTIFIED BY:** 

FLTM BO 040-01 B\* (c) Good, Stable, No Ooze, Odor, Warping or Lifting

> Results Mode

218.2 TEAR

Mode

215 1

Results

227.2

TEAR Results

TEAR

Not Applicable

**Status** Not Applicable

% Change

1%

4%

Status Results

Not Applicable Not Applicable

Results Not Applicable Not Applicable

Not Applicable Not Applicable Not Applicable Not Applicable

Results Status Not Tested **Not Tested** 

Status

Results 3.8

Evaluation Status No Lifting or Appearance Changes **Pass** 

No Lifting or Appearance Changes **Pass** No Lifting or Appearance Changes **Pass** 

1-1-24 ISSUE DATE:

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

Results

424.7

536.0

394 9



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**TEST REPORT** 

PRODUCT: FT 0900X SUPPORT: FLOCK SUBSTRATE: TPO

CERT NO.: 231128 - 0906

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 guarter panels; hard instrument panels

**TEST METHOD EXPLANATION:** 

SECTION: 3.4 Odor

\*(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)

This test is not applicable to the substrate involved.

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

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)

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

CERTIFIED BY:

David Nichols II, Automotive Lab Technician

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 \*.