

250 Chester Street

Painesville, Ohio 44077

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

Fax: 888-358-4469

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

3.8.1.2, Change After Long Term 3.7.2.2 Aging

TEST REPORT

FT 0900X PET 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 Status Reported g/m² 277.2 Reported

ACCREDITED

TESTING LABORATORY

Not Tested

Pass

Status

Pass

Reported

Status

Status

Status

Not Applicable

Not Applicable

Not Applicable

Specification Results ISO 3795

Status 3 Max Rating Not Tested **Not Tested** 3 Max Rating Not Tested **Not Tested** 3 Max Rating Not Tested

Specification SAE J1756 Results Status > 70 Units 74.9 **Pass**

Specification ISO 3795 Results Status

< 100 mm / min SE / NBR **Pass**

Specification Evaluation Status

No Significant Odor or Mold Growth No Evidence of Mildew Growth, Objectionable Odor or Separation **Pass**

> **Evaluation Specification** FLTM BO 040-01 A* (c) Status **Pass**

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

TEAR

Results

Results

Results

Not Applicable

Not Applicable

Not Applicable

6%

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

229.8

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

SECTION: 3.8 **Physical Properties Specification** ASTM D5034* (d) Results Mode 35 N / In min 217.3 TEAR

3.8.1, Original Breaking Strength **Climate Control Applications** SECTION: 3.8 **Specification** ASTM D5034* (d) Results Mode % Change Status 3.8.1.1, Change After Short Term 3.7.2.1 Aging < 30 % Change 220.5 TEAR 1% Reported

< 30 % Change

FLTM BO 040-01 B* (c)

ASTM D3574 F* (e)

Staining, Odor or

Delamination

SECTION: 3.8.2 Tear Resistance (Foam Materials Only) **Specification**

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

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

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

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 Report Value % 3.8.4.2, Change After Short Term 3.7.2.1 Aging < 40 % Change

3.8.4.3, Change After Long Term 3.7.2.2 Aging < 10 % Change

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**

SECTION: 3.8.6 Moisture Absorption

Specification 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) Specification ASTM D1000 FLTM BO 040-01* (h) Results **Evaluation** Status

300 N/m - No Adhesion Failure 374.4 No Lifting or Appearance Changes 3.9.1 Original **Pass** 3.9.2 After Short Term Environmental Cycling 225 N/m - No Adhesion Failure 502.8 No Lifting or Appearance Changes **Pass Pass**

225 N/m - No Adhesion Failure 3.9.2 After Long Term Environmental, 168 hrs @ 100°C 359 0 No Lifting or Appearance Changes

1-1-24 **CERTIFIED BY:** 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. Status opinion based upon measurements obtained by personnel with appropriate training and professional experience



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TEST REPORT

PRODUCT: **FT 0900X PET**

SUPPORT: FLOCK SUBSTRATE: TPO

231128 - 0906 CERT NO.:

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

*(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

SECTION: 3.6 Flammability

ISO 3795

*(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)

SAF J1756

*(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

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

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:

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.

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 *.

Avery Dennison Performance Tapes 250 Chester St. Painesville, Ohio 44077

Original Test Date:

Page 2 of 2