TEST REPORT									
	PRODUCT: FT 1149X								
250 Chester Street	SUPPORT: FLOCK SUBSTRATE: ABS			ANSI Viational Accreditation Board					
Painesville, Ohio 44077 Phone: <b>866-GO-AVERY (866-462-8379)</b>	CERT NO.:	221213 -	1125				ACCREI	DITED	
Fax: 888-358-4469 email: psa.tape@averydennison.com	FORD WSS-M99P32-E OEM Rev Date: Mar 2						TESTING LAB		
URL: tapes.averydennison.com	Performance, Acoustic Above the Belt	al And Insi	ulators, Interio	r Assembl	ies				
TAPE REQUIREMENTS: Horizontal or Vertical Parts Above the Belt Line - Pillars; upper quarter panels; hard instrument panels   SECTION: Thickness Specification Results									Status
Thickness, Flock & Adhesive	0.9 +/-	2 mm				0.78			Pass
SECTION: <b>3.3 Weight</b> 3.3.2 Weight per Unit Area (Foams) - Adhesive Composite		fication d kg/m <sup>3</sup>		Minimum	365.8	<u>Results</u>	Average 3	368.8	Status Reported
3.3.2 Weight per Unit Area (Non-Foams) -	· · · · · · · · · · · · · · · · · · ·	d kg/m³		Minimum	232.3		•		Reported
SECTION: 3.4 Odor		fication Rating	FLTM BO 131-03* (a	)	Pating	Results 1.5 Slightly I	Percentible		Status Pass
3.4.1 Odor, Condition 1 - 24 hrs @ RT, Deionized Water 3.4.2 Odor, Condition 2 - 24 hrs @ 40°C, Deionized Water	3 Max	Rating			Rating 2	Perceptible, I	Not Disturbing		Pass
3.4.3 Odor, Condition 3 - 2 hrs @ 65°C		Rating			Rating 2		Not Disturbing		Pass
SECTION: <b>3.5 Fogging</b> 3.5, 3 hrs @ 100°C, 21°C Cooling, 16 hrs @ RT		fication Units	SAE J1756			96.6			<u>Status</u> Pass
SECTION: <b>3.6 Flammability</b> 3.6, Initial, Component		fication nm / min	ISO 3795* (b)			<u>Results</u> < B 25			<u>Status</u> Pass
3.7 Construction Properties									
SECTION 3.7 Resistance To Mildew	Specie Evidence of Mildew Grow	fication	ctionable Odor		No Signif	Results	Mold Growth		<u>Status</u> Pass
SECTION: 3.7.2 Environmental Testing					No olgrai				1 433
3.7.2.1, Short Term Environmental Cycling		fication	FLTM BO 040-01 A*		Stable N	Results	vr. Warning or Lif	fting	Status
5 hrs @ -30°C    30 mins @ RT 5 hrs @ 80°C    30 mins @ RT	Blistering			G000,	Stable, N	10 002e, Out	or, Warping or Lif	ning	Pass
2 hrs @ 50ºC / 95% RH 30 mins @ RT 5 hrs @ -30ºC	Staining Delam	, Odor or ination							
3.7.2.2, Long Term Environmental Cycling, 7 Days @ 80°C		FL	TM BO 040-01 B* (c)	Good,	Stable, N	o Ooze, Odo	r, Warping or Lift	ting	Pass
SECTION: 3.7.2 Adhesion		fication	ASTM D1000 per MA	AT SPEC		Results			Status
<ul><li>3.7.2, Ambient, 20 minutes</li><li>3.7.2.1, Short Term Environmental Cycling, Long Term Cycling,</li></ul>	7 Days @ 80℃ <b>11.6</b>	/ cm N / cm				6.3 11.6			Pass Pass
3.7.2.2, Long Term Cycling, 7 Days @ 80°C	11.6	N / cm				16.1			Pass
SECTION: 3.8 Physical Properties 3.8.1, Original Breaking Strength		fication In min	ASTM D5034* (d)	<u>Evalı</u> 28	<b>iation</b> 5.1	Mode TEAR			Status Pass
SECTION: 3.8 Climate Control Applications		fication	ASTM D5034* (d)	Evalu		Mode	<u>% Chang</u> 1%	e	Status
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		Change Change		29	3.3 0.6	TEAR TEAR	2%		Reported Reported
SECTION: <b>3.8.2</b> Tear Resistance (Foam Materials Only) 3.8.2, Finished Part, Tear Resistance (Foam Materials Only)		fication ed N/m	ASTM D3574 F* (e)			<u>Results</u> Not Applica	ble	N	<u>Status</u> ot Applicable
SECTION: 3.8.3 Compression Force Deflection Test (Foa	m Materials Only)					<u>Results</u>			Status
Compression Force Deflection Test (Foam Materials Only) 3.8.3.1, Finished Part, Compression Force Deflection	250 mm	n (10 in)				Not Applica	ble	N	ot Applicable
SECTION: 3.8.4 Constant Deflection Compression Set Te						Results			<u>Status</u>
3.8.4.1, Original Breaking Strength 3.8.4.2, Change After Short Term 3.7.2.1 Aging		Value % Change				Not Applica Not Applica			ot Applicable ot Applicable
3.8.4.3, Change After Long Term 3.7.2.2 Aging	< 10 %	Change				Not Applica	ble	N	ot Applicable
SECTION: 3.8.5 Peel Strength (Laminates Only) 3.8.5, Peel Strength (Engine and Underbody Laminates Only)		fication mm min	FLTM BN 151-05* (f)			Results 38.3			Status Pass
SECTION: 3.8.6 Moisture Absorption 3.8.6, Suspended 24 hrs @ 38°C / 95% RH		fication max				Results			Status Pass
SECTION: 3.8.7 Fiber Loss Test for Insulation (Fibrous N 3.8.7, Fiber Loss Test		fication cm <sup>2</sup> max	FLTM BN 058-01* (g	)		<u>Results</u> 0.1			<u>Status</u> Pass
SECTION: 3.9 Adhesion Strength		fication	FLTM BO 040-01			Results			Status
3.9.1 Original 3.9.2 After Short Term Environmental Cycling, 168 hrs @ 100°C	300 N / m - No / 225 N / m - No /				536.7 823.7	-	or Appearnce Cha or Appearnce Cha	-	Pass Pass
3.9.2 After Long Term Environmental, 168 hrs @ 100°C	225 N / m - No /	Adhesion F	ailure		641.1		r Appearnce Cha		Pass
				ISS		· 1-1	-24		

CERTIFIED BY:

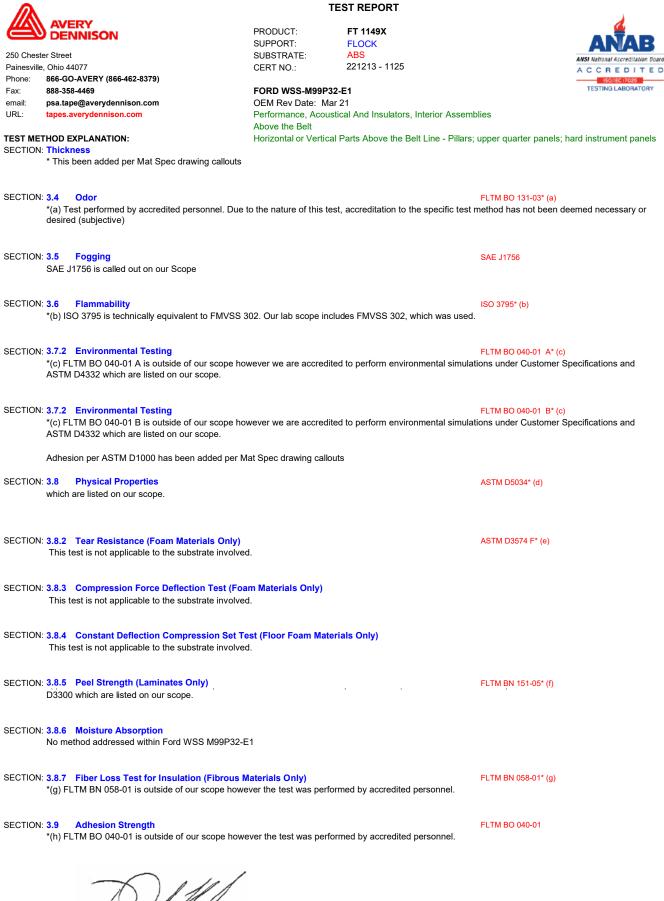
Dar phil-5 Dave Nichols Jr, Automotive Lab Technician

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.

Status opinion based upon measurements obtained up personner with appropriate training and protection of the status opinion based upon measurements obtained \*. See further explanation for some tests methods on the last page \*(a, b, c ...) Avery Denrison Performance Tapes 250 Chester St. Painesville, Ohio 44077 Original Test Date: 10-11-2017 Page 1 of 2



CERTIFIED BY:

Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE:

<u>1-1-24</u>

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. Avery Dennison Performance Tapes 250 Chester St. Painesville, Ohio 44077 Page 2 d 2