

		SUPPORT
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URL:	tapes.averydennison.com	Adhesion Per

 PRODUCT:
 FBR 1950

 SUPPORT:
 PORON FOAM

 SUBSTRATE:
 PC ABS

 CERT NO.:
 221215 - 1432



GMW 16443-TYPE-II-EXTERIOR-CYCLE-C

OEM Rev Date: Aug 18 Adhesion Performance Requirements For Adhesive Backed Light Trim and Foam Type II - An adhesive backed foam composite that is retained by the adhesive for the life of the vehicle

Passing Type II Meets and Exceeds 3.5.1 Type I Exposure Requirements

TAPE REQUIREMENTS:3.5.2 TYPE-II ExposureSECTION3.3.3 Edge Adhesion3.5.3, Initial, As Received - 24 hrs @ RT		Specification Securely Bonded		Results Diffing or Rer	noval	<u>Status</u> Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188		Securely Bonded	Stable, No	o Lifting or Rer	noval	Pass
3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per G	MW 14729 Option A	Securely Bonded	Stable, No	o Lifting or Rer	noval	Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C 17 hrs @ -30°C 72 hrs @ 70°C 24 hrs @ 38°C / 100% RH 7 hrs @ -30°C 24 hrs @ 38°C / 100% RH 7 hrs @ 70°C 24 hrs @ 38°C / 100% RH		Securely Bonded	Stable, No	o Lifting or Rer	noval	Pass
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C		Securely Bonded				Pass
SECTION 3.4 Peel Adhesion 3.5.3, Initial, As Received - 24 hrs @ RT	ISO 8510-2	Specification 525 N / m		Results 657.9	<u>Mode</u> CF	<u>Status</u> т Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188		525 N/m		666.1	CF	т Pass
3.5.5, After Humidity 168 hrs @ 38°C / 100% RH per G	MW 14729 Option A	525 N/m		457.1	CF	т Pass
3.5.6, Cycle Exposure, GMW 14124, 2x Cycle C 17 hrs @ -30°C 72 hrs @ 70°C 24 hrs @ 38°C / 100% RH 7 hrs @ -30°C 24 hrs @ 38°C / 100% RH 7 hrs @ 70°C		525 N / m		672.5	CF	тPass
3.5.8, Cold Shock, 72 hrs @ 54ºC, 4 hrs @ -30ºC		525 N/m		566.8	AF-P	т Pass
SECTION 3.5.8 Cold Shock 3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C		Specification No Separation from 2	No In	Results	on	<u>Status</u> Pass
SECTION: 3.7.1 Release Liner 3.7.2, Liner Removal @ RT		Specification < 65 N / m		Results 15.8		<u>Status</u> Pass
CERTIFIED BY: Dave Nichols Jr, Automotive Lab Technician			ISSUE DATE:	<u>1-1-24</u>	<u>L</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. This laboratory is not accredited for the calibrations or tests marked *.

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

	PRODUCT:	FBR 1950
Appendix A Table A2	SUPPORT:	PORON FOAM
	SUBSTRATE:	PC ABS
	CERT NO .:	221215 - 1432

Table A2: GMW16443 Type II Applications Test Data Form							
Section	Test	Standard	Requirements	Sample	Visual Edge Adhesion	Peel N/m	Failure Mode
3.5.3	Initial, As Received - 24 hrs @ RT			1	Stable, No Lifting or Removal	800.3	CF
				2	Stable, No Lifting or Removal	705.8	CF
				3	Stable, No Lifting or Removal	467.6	CF
				1	Stable, No Lifting or Removal	616.4	CF
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			2	Stable, No Lifting or Removal	591.9	CF
				3	Stable, No Lifting or Removal	789.8	CF
	After Humidity 168 hrs @			1	Stable, No Lifting or Removal	443.1	CF
	38°C / 100% RH per GMW	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	2	Stable, No Lifting or Removal	458.8	CF
	14729 Option A			3	Stable, No Lifting or Removal	469.3	CF
3.5.6				1	Stable, No Lifting or Removal	711.0	CF
	Cycle Exposure, GMW 14124, 2x Cycle C			2	Stable, No Lifting or Removal	579.7	CF
				3	Stable, No Lifting or Removal	726.8	CF
				1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C			1	Stable, No Lifting or Removal	537.6	CF
				2	Stable, No Lifting or Removal	544.6	CF
				3	Stable, No Lifting or Removal	618.2	CF

Section	Test	Standard	Requirements	Sample	Result	
3.6	Tape Wet Out, GMW15851	GMW 15851 is restricted and we cannot purchase	85% Tape Wet Out	1	Not Tested	
				2	Not Tested	
				3	Not Tested	
3.7.1	Release Liner Contact	To Be Determined @ Tier	No Lift Prior To Vehicle Install	1	TBD	
				2	TBD	
				3	TBD	
3.7.2	Liner Removal	ISO 8510-2	Less Than Or Equal To 65 N/m	1	12.3	
				2	17.5	
				3	17.5	

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