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TEST REPORT

PRODUCT: FBR 8950
SUPPORT: EPDM FOAM
SUBSTRATE: ABS
CERT NO.: 260605 - 0600



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 Exposure

SECTION 3.3.3 Edge Adhesion

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	Securely Bonded	Stable, No Lifting or Removal	Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	Securely Bonded	Stable, No Lifting or Removal	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 Lifting or Removal	Pass
3.5.7, Accelerated Weathering Resistance, GMW 14162, Cycle C, 115°C*	Securely Bonded	Not Tested	Not Tested
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	Securely Bonded	Stable, No Lifting or Removal	Pass

SECTION 3.4 Peel Adhesion

ISO 8510-2

	<u>Specification</u>	<u>Results</u>	<u>Mode</u>	<u>Status</u>
3.5.3, Initial, As Received - 24 hrs @ RT	525 N / m	1169.0	CF	Pass
3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188	525 N / m	2052.1	CF	r Pass
3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	525 N / m	1037.9	CF	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	1811.0	CF	r Pass
3.5.7, Accelerated Weathering Resistance, GMW 14162, Cycle C, 115°C*	525 N / m	Not Tested		Not Tested
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	525 N / m	1127.4	CF	Pass

SECTION 3.5.8 Cold Shock

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	No Separation from 2	No Impact Separation	Pass

SECTION: 3.7.1 Release Liner

	<u>Specification</u>	<u>Results</u>	<u>Status</u>
3.7.2, Liner Removal @ RT	< 65 N / m	23.4	Pass

CERTIFIED BY:

David Nichols II, Automotive Lab Technician

ISSUE DATE: 1-1-26

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 *.

Appendix A Table A2

PRODUCT: **FBR 8950**
 SUPPORT: **EPDM FOAM**
 SUBSTRATE: **ABS**
 CERT NO.: 260605 - 0600

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	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	1151.1	CF
				2	Stable, No Lifting or Removal	1245.2	CF
				3	Stable, No Lifting or Removal	1110.8	CF
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188			1	Stable, No Lifting or Removal	2437.1	CF
				2	Stable, No Lifting or Removal	2333.6	CF
				3	Stable, No Lifting or Removal	1385.6	CF
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A			1	Stable, No Lifting or Removal	1074.9	CF
				2	Stable, No Lifting or Removal	1024.5	CF
				3	Stable, No Lifting or Removal	1014.3	CF
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C			1	Stable, No Lifting or Removal	2057.6	CF
				2	Stable, No Lifting or Removal	1755.6	CF
				3	Stable, No Lifting or Removal	1619.9	CF
3.5.7	After Accelerated Weathering Reisittance per SAE J2412 or GMW14162 Cycle C and 115°C	1	Not Tested		Not Tested		
		2	Not Tested		Not Tested		
		3	Not Tested		Not Tested		
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	1	Stable, No Lifting or Removal	1164.1	CF		
		2	Stable, No Lifting or Removal	1100.0	CF		
		3	Stable, No Lifting or Removal	1118.2	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	28.0
				2	15.8
				3	26.3