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TEST REPORT

PRODUCT: FBA 8218
SUPPORT: 2 MIL PET
SUBSTRATE: ABS
CERT NO.: 230109 - 1103

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

3.5.3, Initial, As Received - 24 hrs @ RT

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

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

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.4 Peel Adhesion

ISO 8510-2

3.5.3, Initial, As Received - 24 hrs @ RT

3.5.4, Heat Aged 168 hrs @ 80°C per ISO 188

3.5.5, Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A

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

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION 3.5.8 Cold Shock

3.5.8, Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C

SECTION: 3.7.1 Release Liner

3.7.2, Liner Removal @ RT

CERTIFIED BY:

Dave Nichols Jr, Automotive Lab Technician

Specification	Results	Status
Securely Bonded	Stable, No Lifting or Removal	Pass

Specification	Results	Status
Securely Bonded	Stable, No Lifting or Removal	Pass

Specification	Results	Status
Securely Bonded	Stable, No Lifting or Removal	Pass

Specification	Results	Status
Securely Bonded	Stable, No Lifting or Removal	Pass

Specification	Results	Status
Securely Bonded	Stable, No Lifting or Removal	Pass

Specification	Results	Mode	Status
525 N / m	531.2	AF-P	Pass

Specification	Results	Mode	Status
525 N / m	771.1	AF-P	Pass

Specification	Results	Mode	Status
525 N / m	689.4	AF-P	Pass

Specification	Results	Mode	Status
525 N / m	738.5	AF-P	Pass

Specification	Results	Mode	Status
525 N / m	737.3	AF-P	Pass

Specification	Results	Status
No Separation from 2	No Impact Separation	Pass

Specification	Results	Status
< 65 N / m	Not Tested	Not Tested

ISSUE DATE: 1-1-25

Materials tested to OEM requirements @ 72°F +/- 2°F and 50% RH +/- 5%. Test uncertainty and minor exclusions are available online or upon request.

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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: **FBA 8218**
 SUPPORT: **2 MIL PET**
 SUBSTRATE: **ABS**
 CERT NO.: **230109 - 1103**

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	548.1	AF-P
				2	Stable, No Lifting or Removal	548.1	AF-P
				3	Stable, No Lifting or Removal	497.4	AF-P
3.5.4	Heat Aged 168 hrs @ 80°C per ISO 188	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	775.8	AF-P
				2	Stable, No Lifting or Removal	753.0	AF-P
				3	Stable, No Lifting or Removal	784.6	AF-P
3.5.5	Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	709.3	AF-P
				2	Stable, No Lifting or Removal	665.5	AF-P
				3	Stable, No Lifting or Removal	693.5	AF-P
3.5.6	Cycle Exposure, GMW 14124, 2x Cycle C	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	737.3	AF-P
				2	Stable, No Lifting or Removal	730.3	AF-P
				3	Stable, No Lifting or Removal	747.8	AF-P
		ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1			
				2			
				3			
3.5.8	Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C	ISO 8510-2	Minimum of 525 N/m and Cohesive Failure of One or Both of the Adherends	1	Stable, No Lifting or Removal	756.5	AF-P
				2	Stable, No Lifting or Removal	751.3	AF-P
				3	Stable, No Lifting or Removal	704.0	AF-P

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	Not Tested
				2	Not Tested
				3	Not Tested