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TEST REPORT

PRODUCT: FBD 8393
SUPPORT: EPDM FOAM
SUBSTRATE: ABS
CERT NO.: 221215 - 1448



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

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: **FBD 8393**
 SUPPORT: **EPDM FOAM**
 SUBSTRATE: **ABS**
 CERT NO.: 221215 - 1448

Table A2: GMW16443 Type II Applications Test Data Form

| 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 | 936.9 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1029.7 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1078.8 | CF |
| 3.5.4 | Heat Aged 168 hrs @ 80°C per ISO 188 | | | 1 | Stable, No Lifting or Removal | 1106.8 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1136.6 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1131.3 | CF |
| 3.5.5 | Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A | | | 1 | Stable, No Lifting or Removal | 943.9 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 957.9 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1161.1 | CF |
| 3.5.6 | Cycle Exposure, GMW 14124, 2x Cycle C | | | 1 | Stable, No Lifting or Removal | 1285.4 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1287.2 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1112.1 | CF |
| | | | | 1 | | | |
| | | | | 2 | | | |
| | | | | 3 | | | |
| 3.5.8 | Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C | | | 1 | Stable, No Lifting or Removal | 1008.7 | AF-P |
| | | | | 2 | Stable, No Lifting or Removal | 914.2 | AF-P |
| | | | | 3 | Stable, No Lifting or Removal | 982.5 | 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 | 15.8 |
| | | | | 2 | 14.0 |
| | | | | 3 | 8.8 |