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TEST REPORT

PRODUCT: FT 1123
SUPPORT: 5 MIL BLACK UHMWPE
SUBSTRATE: ABS
CERT NO.: 221215 - 1429



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

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

| Specification | Results | Mode | Status |
|---------------|---------|------|--------|
| 525 N / m | 1131.3 | CF | Pass |
| 525 N / m | 991.8 | CF | Pass |
| 525 N / m | 1085.8 | CF | Pass |
| 525 N / m | 903.7 | CF | Pass |
| 525 N / m | 1130.7 | CF | Pass |

| Specification | Results | Status |
|----------------------|----------------------|--------|
| No Separation from 2 | No Impact Separation | Pass |

| Specification | Results | Status |
|---------------|---------|--------|
| < 65 N / m | 23.9 | Pass |

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: FT 1123
 SUPPORT: 5 MIL BLACK UHMWPE
 SUBSTRATE: ABS
 CERT NO.: 221215 - 1429

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 | 1161.1 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1157.6 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1075.3 | CF |
| 3.5.4 | Heat Aged 168 hrs @ 80°C per ISO 188 | | | 1 | Stable, No Lifting or Removal | 1066.5 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1014.0 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 894.9 | CF |
| 3.5.5 | Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A | | | 1 | Stable, No Lifting or Removal | 1047.3 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1103.3 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1106.8 | CF |
| 3.5.6 | Cycle Exposure, GMW 14124, 2x Cycle C | | | 1 | Stable, No Lifting or Removal | 972.0 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 893.1 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 845.9 | CF |
| | | | | 1 | | | |
| | | | | 2 | | | |
| | | | | 3 | | | |
| 3.5.8 | Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C | | | 1 | Stable, No Lifting or Removal | 1108.6 | CF |
| | | | | 2 | Stable, No Lifting or Removal | 1166.3 | CF |
| | | | | 3 | Stable, No Lifting or Removal | 1117.3 | 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 | 24.5 |
| | | | | 2 | 24.5 |
| | | | | 3 | 22.8 |