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TEST REPORT

PRODUCT: FT 8392
SUPPORT: PVC FOAM
SUBSTRATE: TPO
CERT NO.: 221215 - 1445



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

| 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 |

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

| Specification | Results | Mode | Status |
|---------------|---------|------|--------|
| 525 N / m | 840.0 | AF-P | Pass |
| 525 N / m | 1174.5 | AF-P | Pass |
| 525 N / m | 1412.7 | AF-P | Pass |
| 525 N / m | 1361.3 | AF-P | Pass |
| 525 N / m | 1590.2 | AF-P | Pass |

SECTION 3.5.8 Cold Shock

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

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

SECTION: 3.7.1 Release Liner

3.7.2, Liner Removal @ RT

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

CERTIFIED BY:
Dave Nichols Jr, Automotive Lab Technician

ISSUE DATE: 1-1-24

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: FT 8392
 SUPPORT: PVC FOAM
 SUBSTRATE: TPO
 CERT NO.: 221215 - 1445

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 | 877.4 | AF-P |
| | | | | 2 | Stable, No Lifting or Removal | 833.6 | AF-P |
| | | | | 3 | Stable, No Lifting or Removal | 809.1 | AF-P |
| 3.5.4 | Heat Aged 168 hrs @ 80°C per ISO 188 | | | 1 | Stable, No Lifting or Removal | 1197.9 | AF-P |
| | | | | 2 | Stable, No Lifting or Removal | 1145.3 | AF-P |
| | | | | 3 | Stable, No Lifting or Removal | 1180.4 | AF-P |
| 3.5.5 | Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A | | | 1 | Stable, No Lifting or Removal | 1490.3 | AF-P |
| | | | | 2 | Stable, No Lifting or Removal | 1451.8 | AF-P |
| | | | | 3 | Stable, No Lifting or Removal | 1295.9 | AF-P |
| 3.5.6 | Cycle Exposure, GMW 14124, 2x Cycle C | | | 1 | Stable, No Lifting or Removal | 1299.4 | AF-P |
| | | | | 2 | Stable, No Lifting or Removal | 1376.5 | AF-P |
| | | | | 3 | Stable, No Lifting or Removal | 1408.0 | AF-P |
| | | | | 1 | | | |
| | | | | 2 | | | |
| | | | | 3 | | | |
| 3.5.8 | Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C | 1 | Stable, No Lifting or Removal | 1576.1 | AF-P | | |
| | | 2 | Stable, No Lifting or Removal | 1628.7 | AF-P | | |
| | | 3 | Stable, No Lifting or Removal | 1565.6 | 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 |