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**TEST REPORT**

PRODUCT: FT 7329X  
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

| <u>Specification</u> | <u>Results</u>                | <u>Status</u> |
|----------------------|-------------------------------|---------------|
| 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          |

| <u>Specification</u> | <u>Results</u> | <u>Mode</u> | <u>Status</u> |
|----------------------|----------------|-------------|---------------|
| 525 N / m            | 976.0          | CF          | Pass          |
| 525 N / m            | 851.1          | AF-P        | Pass          |
| 525 N / m            | 937.5          | CF          | Pass          |
| 525 N / m            | 1310.5         | CF          | Pass          |
| 525 N / m            | 1043.2         | CF          | Pass          |

| <u>Specification</u> | <u>Results</u>       | <u>Status</u> |
|----------------------|----------------------|---------------|
| No Separation from 2 | No Impact Separation | Pass          |

| <u>Specification</u> | <u>Results</u> | <u>Status</u> |
|----------------------|----------------|---------------|
| < 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 7329X  
 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 | 591.9    | CF           |
|         |  |            |   | 2      | Stable, No Lifting or Removal | 1215.4   | CF           |
|         |  |            |   | 3      | Stable, No Lifting or Removal | 1120.8   | CF           |
| 3.5.4   | Heat Aged 168 hrs @ 80°C per ISO 188                     |            |   | 1      | Stable, No Lifting or Removal | 866.9    | AF-P         |
|         |  |            |   | 2      | Stable, No Lifting or Removal | 814.3    | AF-P         |
|         |  |            |   | 3      | Stable, No Lifting or Removal | 872.1    | AF-P         |
| 3.5.5   | Humidity 168 hrs @ 38°C / 100% RH per GMW 14729 Option A |            |   | 1      | Stable, No Lifting or Removal | 949.2    | CF           |
|         |  |            |   | 2      | Stable, No Lifting or Removal | 915.9    | CF           |
|         |  |            |   | 3      | Stable, No Lifting or Removal | 947.4    | CF           |
| 3.5.6   | Cycle Exposure, GMW 14124, 2x Cycle C                    |            |   | 1      | Stable, No Lifting or Removal | 1367.7   | CF           |
|         |  |            |   | 2      | Stable, No Lifting or Removal | 1301.2   | CF           |
|         |  |            |   | 3      | Stable, No Lifting or Removal | 1262.7   | CF           |
|         |  | 1          |   |        |                               |          |              |
|         |  | 2          |   |        |                               |          |              |
|         |  | 3          |   |        |                               |          |              |
| 3.5.8   | Cold Shock, 72 hrs @ 54°C, 4 hrs @ -30°C                 | 1          | Stable, No Lifting or Removal   | 994.7  | CF                            |          |              |
|         |  | 2          | Stable, No Lifting or Removal   | 1070.0 | CF                            |          |              |
|         |  | 3          | Stable, No Lifting or Removal   | 1064.8 | 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      | Not Tested |
|         |                        |  |                                  | 2      | Not Tested |
|         |                        |  |                                  | 3      | Not Tested |