

|   |                        |               |
|---|------------------------|---------------|
| <b>TEST REPORT</b>  | <b>PRODUCT:</b>        | <b>655 ❶</b>  |
| GMW16443 Type 1 & 2 [Interior] – August, 2018   | <b>TEST SUBSTRATE:</b> | 20%TFPP & ABS |
| DOCUMENT TITLE: Adhesion Performance Requirements for Adhesive Backed Light Trim and Foam | <b>REPORT DATE:</b>    | 06/26/23      |

| PARAGRAPH                                       | REQUIREMENT   | 20% TFPP RESULTS  | ABS RESULTS |
|---|---|---|-------------|
| <b>3 REQUIREMENTS</b>                           |   |   |             |
| 3.3.3 <b>EDGE ADHESIVE</b>                      |   |   |             |
| 3.5.3 As Received                               | No Signs of Lift or Separation from the Bonded to Substrate. During Heat Exposure, the Adhesive Must Not Flow | No Signs of Lift or Separation From Bonded Substrate and No adhesive flow during Heat Exposure Observed |             |
| 3.5.4 Heat Aged – 168H @ 80 ± 2°C [ISO 188] ❷ ♦ |   |   |             |
| 3.5.5 Humidity – 168H @ 38° ± 2°C & 98% RH ❸ ♦  |   |   |             |
| 3.5.6 Cycle Exposure – GMW14124 Cycle C ❹ ♦     |   |   |             |
| <b>3.4 180° PEEL ADHESION [ISO 8510-2]</b>      |   |   |             |
| 3.5.3 As Received                               |   | 677 N/m   | 1382 N/m    |
| 3.5.4 Heat Aged – 168H @ 80 ± 2°C [ISO 188] ❷ ♦ | 525 N/m Minimum   | 1306 N/m  | 1347 N/m    |
| 3.5.5 Humidity – 168H @ 38° ± 2°C & 98% RH ❸ ♦  | and   | 986 N/m   | 1255 N/m    |
| 3.5.6 Cycle Exposure – GMW14124 Cycle C ❹ ❻ ♦   | Foam Tear ❺   | 1114 N/m  | 1744 N/m    |
| <b>3.5.8 COLD SHOCK [GMW16443]</b>              |   |   |             |
| Impact [With No Recover]                        | Must Withstand  | Pass  | Pass        |
| 180° Peel Adhesion [ISO 8510-2]                 | 525 N/m Minimum   | 1026 N/m  | 1875 N/m    |

**Note:** Accelerated Weathering Resistance per 3.5.7 for parts “if exterior exposed” not tested. Testing would require application part and substrate.

- ❶ Adchem adhesive system backed exposed-side with 1 mil PET film
- ❷ **EXCEPTION:** Samples conditioned in laboratory standard Gravity Convection oven not specifically designed to comply with ISO 188.
- ❸ **EXCEPTION:** Samples conditioned at 38°C and 98% Non-Condensing Humidity in place of Condensing Humidity per GMW14729 Option A (Water Fog)
- ❹ **EXCEPTION:** 38°C and 98% Non-Condensing Humidity used in place of Condensing Humidity per GMW14729  
2 Cycles: 17h -30 +/- 2 °C, 72h 70 +/- 2 °C, 24h 38°C and 98% RH, 7h -30 +/- 2 °C, 17h 24h 38°C and 98% RH, 7h 70 +/- 2 °C, 24h 38°C and 98% RH
- ❺ **EXCEPTION:** Demonstration of Foam Tear as stated requires proposed foam/adhesive combination tested on the production intent substrate.

♦ Results for this test are Non-Accredited Data due to Exception as stated

APPROVED: Original Test Date: 7/28/20  
Berry Global Technical Service Department

Conditioning and Testing per GMW16443 Type 1 & 2 Except as Noted