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|--|------------------------|--|
| <b>TEST REPORT</b>   | <b>PRODUCT:</b>        | <b>654M ❶</b>  |
| Ford ESA-M11P19-A; 2013-12-12  | <b>TEST SUBSTRATE:</b> | Stainless Steel, 20% Talc-Filled Polypropylene (TFPP), & ABS |
| DOCUMENT TITLE: ADHESION REQUIREMENTS, POLYURETHANE FOAM TO ESA-M11P19-A POLYPROPYLENE - PRESSURE SENSITIVE FILM | <b>REPORT DATE:</b>    | 06/26/23   |

### 3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

#### 3.1 PEEL STRENGTH, PLASTIC MEMBRANE TO PANEL (ASTM D 903)

|                     | <u>Requirement</u> | <u>Stainless Steel Results</u> | <u>Polypropylene Results</u> | <u>ABS Results</u> |
|---------------------|--------------------|--------------------------------|------------------------------|--------------------|
| 3.1.1 AS RECEIVED   | 0.44 N/mm          | 0.71 N/mm                      | 0.59 N/mm                    | 0.88 N/mm          |
| 3.1.2 HEAT AGED     | 0.44 N/mm          | 1.20 N/mm                      | 0.90 N/mm                    | 1.18 N/mm          |
| 3.1.3 HUMIDITY AGED | 0.44 N/mm          | 1.03 N/mm                      | 0.71 N/mm                    | 1.27 N/mm          |

#### 3.2 PEEL STRENGTH, FOAM TO PLASTIC MEMBRANE

|                   |                 |                                    |
|-------------------|-----------------|------------------------------------|
| 3.2.1 AS RECEIVED | No Delamination | NOT TESTED<br>FOAM RUBBER REQUIRED |
|-------------------|-----------------|------------------------------------|

#### 3.3 BOND SEPARATION

|      |  |
|------|--|
| None | NOT TESTED<br>PRODUCTION PART REQUIRED |
|------|--|

#### 3.4 QUALITY

Release film shall readily be removed from pressure sensitive adhesive so as not to interfere with normal production processing.

|                   |                   |
|-------------------|-------------------|
| Readily Removable | Readily Removable |
|-------------------|-------------------|

❶ Product tested with exposed-side backed with 1-mil PET film

APPROVED:

Original Test Date: 6/18/18

Berry Global Technical Service Department

*Conditioning and Testing per Ford ESA-M11P19-A except as noted*

1852 Old Country Rd Riverhead, NY 11901  
631-727-6000 • [www.berryglobal.com](http://www.berryglobal.com)