

**ADHESIVE WEIGHT TEST FOR VINYL ROOFS****Application**

This method is used to determine the weight in g/m<sup>2</sup> of adhesive sprayed on vinyl roofs.

**Apparatus Required****Laboratory Balance**

Accuracy +/- 0.1 mg

**Aluminum Foil**

Household type.

**Double Backed Adhesive Tape****Laboratory Convection Oven**

Capable of maintaining a temperature of 80 +/- 2 °C.

**Conditioning and Test Conditions**

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

**Procedure**

1. Cut three 100 x 100 mm sections from a roll of foil (area = 100 cm<sup>2</sup>).
2. Weigh the foil sections ( $W_1$ )
3. Place foil adjacent to or directly on the substrate to be sprayed (according to the material specification or as otherwise specified) in a random arrangement to obtain values representative of the entire surface being sprayed.

Note: Foil may be secured to test surface with double backed adhesive tape.

| Date       | Action  | Revisions                                  |
|------------|---------|--------------------------------------------|
|            |         |                                            |
| 2001 08 23 | Revised | Editorial – no technical change A. Cockman |
| 1994 02 28 |         |                                            |

Printed copies are uncontrolled

Page 1 of 2

Copyright © 2001, Ford Global Technologies, Inc.

4. Following application of adhesive, remove foil and place them in a convection oven at 80 °C for four hours.

Note: Remove the tape from the foil.

5. After removal from oven, weigh foil and calculate weight in g/m<sup>2</sup>. (W<sub>2</sub>). Report the average of three weights.

6. Calculate as follows:

$$(W_2 - W_1) \times 100 = W_x$$

Where:    W<sub>2</sub>    =    Weight of foil and adhesive (g/100 cm<sup>2</sup>).  
             W<sub>1</sub>    =    Weight of foil (g/100 cm<sup>2</sup>).  
             W<sub>x</sub> =    Weight of adhesive in g/m<sup>2</sup>

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.