

# Vertical Burning Test - UL 94, Section 8

|   |   |
|---|---|
| <b>Customer :</b> Smooth-On Inc.<br><b>Microtek Job No. :</b> 39316 <b>Set No.:</b> 1 | <b>Material:</b> Urethane 98-290 / TASK 7<br><b>ANSI :</b> N/A <b>Color:</b> WT                   |
| <b>SOLDER LIMITS</b><br><b>Temp/Time:</b> N/Asec @ N/A°C                              | <b>Coating :</b> N/A<br><b>Nom. Sample Thk.:</b> As-Measured<br><b>Avg. Sample Thk.:</b> 3.568 mm |

| Test Type<br>Original  | Sample No. | Sample Thk:<br>(mm) | Afterflames    |                | Afterglow<br>$t_3$<br>(sec) | Sum of after flames<br>( $t_1 + t_2$ )<br>(sec) | Sum of afterflame and afterglow<br>( $t_2 + t_3$ )<br>(sec) | Did samples burn to the clamp? | Did the cotton ignite? |
|--|------------|---------------------|----------------|----------------|-----------------------------|---|---|--------------------------------|------------------------|
|  |            |                     | $t_1$<br>(sec) | $t_2$<br>(sec) |                             |   |   |                                |                        |
| <b>CONDITION A:</b><br>48 Hours<br>$23 \pm 2^\circ\text{C}$<br>$50 \pm 5\% \text{ RH}$ | 1          | 3.016mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 2          | 3.476mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 3          | 3.996mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 4          | 3.645mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 5          | 3.625mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
| <b>CONDITION B:</b><br>168 Hours<br>$70 \pm 1^\circ\text{C}$                           | 6          | 3.004mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 7          | 3.293mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 8          | 3.671mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 9          | 4.073mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |
|  | 10         | 3.879mm             | 0.0            | 0.0            | 0.0                         | 0.0   | 0.0   | No                             | No                     |

**Test Results:** Meets the requirements of UL 94 Section 8 classification V-0

| Criteria Conditions  | Material Classifications |                    |                    | Test Results |        |
|--|--------------------------|--------------------|--------------------|--------------|--------|
|  | V-0                      | V-1                | V-2                | Cond A       | Cond B |
| Afterflame time for individual sample $t_1$ or $t_2$   | $\leq 10\text{s}$        | $\leq 30\text{s}$  | $\leq 30\text{s}$  | 0.0s         | 0.0s   |
| Total afterflame time for any condition set ( $t_1$ plus $t_2$ for the five specimens)                         | $\leq 50\text{s}$        | $\leq 250\text{s}$ | $\leq 250\text{s}$ | 0.0s         | 0.0s   |
| Afterflame plus afterglow time for each individual specimen after the second flame application ( $t_2 + t_3$ ) | $\leq 30\text{s}$        | $\leq 60\text{s}$  | $\leq 60\text{s}$  | 0.0s         | 0.0s   |
| Afterflame or afterglow of any specimen up to the holding clamp  | No                       | No                 | No                 | No           | No     |
| Cotton indicator ignited by flaming particles or drops   | No                       | No                 | Yes                | No           | No     |



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## CERTIFICATE OF CONFORMANCE

Microtek Laboratories certifies that the test equipment used complies with the calibration requirements of ANSI/NCSL Z540-1, IPC-QL-653, and ISO/IEC-17025 and that the data contained in this report is accurate within the tolerance limitation of this equipment.

The materials and/or devices furnished on this order have been tested/analyzed/and inspected in accordance with all designated instructions and specifications. Physical reports and supporting records are on file and available for inspection at Microtek Laboratories for a period not less than five years. Tested samples will be stored at Microtek Laboratories for a period not less than two years unless the customer requests the release of the test samples.

All test procedures detailed are complete. If any additional information or clarification of this report is required, please contact us.

Thank you for selecting Microtek Laboratories for your testing requirements.

Report prepared by,

A handwritten signature in black ink, appearing to read 'Josephin Mazariegos', written in a cursive style.

Josephin Mazariegos  
Administrative Assistant  
MICROTEK LABORATORIES  
Date: 2010-06-09

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Russ Shepherd', written in a cursive style.

Russ Shepherd  
Director PCB/PWB Test Programs  
MICROTEK LABORATORIES  
Date: 2010-06-09