



**PLASTIC KITCHEN SINK CERTIFICATION TEST RESULTS
FULL SERIES REPORT**

Manufactured By: Tower Industries LLC
P.O. Box 647
Massillon, OH 44648

Manufacturer CR #: 6538 **Report #:** 65380311442

Date of Inspection: 3/10/2011 **Date of Report:** 6/20/2011
Date Unit Received: 3/21/2011 **Inspected By:** Buckeye
Date Unit Tested: 3/23/2011 **Unit Model Style:** #101
Date of Manufacture: 1/28/2011 **Unit Serial Number:** A2811DW

Tests performed in accordance with ANSI Z124.6-2007-Plastic Sinks

2.0 GENERAL REQUIREMENTS

- 2.1 **Materials** **Pass**
 Reinforcement - Resin/Filler
 Plastics - Resin
 Fillers - Alumina Trihydrate
 Substrate Pigments - Titanium Dioxide
 Surface Finish - Solid Surface
 Unit Characteristics - Solid Surface Kitchen Sink
- 2.2 **Dimensional Tolerances:** **Unit** 34" x 19" **Pass**
 Right Bowl 14 1/2" x 15 1/2"
 Left Bowl 14 1/2" x 15 1/2"
- The unit's finished trim measurements shall be within tolerance of
 manufacturer's stated rough-in dimensions.
- 2.3 **Unit for Testing** **Pass**
 Unit shall be randomly selected from manufacturer's finished goods
 inventory.
- 2.4 **Installation Instruction** **Pass**
 Written instructions shall be affixed to the unit in a visible location.
- 2.5 **Care and Maintenance Instruction** **Pass**
 Each unit shall be supplied with a copy and shall be affixed to the unit in
 a conspicuous location and shall state, "To be removed for use by the occupant."
- 2.6 **Identification** **Pass**

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Manufacturer's name and/or trademark shall be permanently and legibly marked on the unit in a visible location.

3.0 Workmanship and Finish

3.3 Surface Test **Pass**
Unit shall be free of cracks, chipped areas and blisters. The number of molding and other defects or blemishes shall not exceed those given in Table 1 of the referenced standard.

3.4 Subsurface Test **Pass**
No visual blemishes or voids larger than 1/16 of an inch in diameter shall be observed below the surface finish.

4.0 Structural Integrity

4.1 Drain Fitting Connection Test **Pass**
During and after the application of 25/50 pounds by using a 24 inch lever arm in three radial positions, no cracks shall be observed around the drain opening.

4.2.1 Point Impact Load Test **Pass**
After the impact of a 1½ inch, half-pound steel ball from a height of 24 inches, no cracks or chips shall be observed in any of the surface areas tested.

4.2.2 Knife Drop Test **Pass**
After the impact of a 1 ounce steel knife from a height of 24 inches into the bowl, no cracks or chips shall be observed in any of the surface areas tested.

4.2.3 Skillet Drop Test **Pass**
After the impact of a 10½ inch, 4½ pound cast iron skillet in the bowl from a height of 12 inches, no cracks or chips shall be observed in any of the surface areas tested.

4.3 Load Test **Pass**
Measurements recorded after removal of an applied loading of 200 pounds for five minutes on two different surface areas shall not exceed 0.010 inches. No cracks shall be observed in the surface finish.

Load Position Number	Residual Deflection (inches)
1	0.000
2	0.001

4.4 Vibration Test **Pass**
The unit shall be subjected to 1,000 cycles of vibration from a food waste grinder with a 15 gram weight affixed to one blade. There shall be no cracks or fractures observed in either compartment.

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5.0 Physical Characteristics

5.1 Colorfastness Test **Pass**

The test sample shall show no significant change in color or surface texture after 200 hours of exposure to a xenon arc-type light-exposure apparatus in accordance with ASTM D2565.

5.2 Stain Resistance Test **Pass**

Ratings for removal of the ten stains listed in the referenced standard are as follows:

REAGENT	COVERED	UNCOVERED
1. Black crayon	3	3
2. Black liquid shoe polish	1	1
3. Blue washable ink	3	3
4. Gentian violet solution	2	2
5. Beet juice	1	1
6. Grape juice	1	1
7. Lipstick	1	2
8. Hair dye	3	1
9. Iodine Solution	1	1
10. Wet tea bag	3	3
TOTALS	19	18
Thickness of material lost = 0 inches	Stain resistance rating = 37	

The stain resistance rating shall not exceed 64. The maximum allowable thickness of material removal to eliminate the stain shall be 0.005 inches.

5.3 Wear & Cleanability Test **Pass**
A. Wear

The surface finish of the three test samples shall not wear through to the supporting subsurfaces after 10,000 scrub cycles with an abrasive slurry solution.

B. Cleanability **Pass**

The average absolute loss of white-light reflectance after application and removal of standard dirt with liquid detergent shall not exceed 5.0 percent. The average absolute loss of white-light reflectance after additional cleaning with an abrasive slurry solution shall not exceed 2.0 percent.

Loss after liquid detergent application = **.6%**

Loss after abrasive slurry application = **0%**

5.4 Cigarette Test **Pass**

After contact with three lighted cigarettes, the test sample shall show no ignition, progressive glow, or unreparable damage. Damage to the surface shall be easily repairable by using abrasive and/or polishing compounds.

5.5 Chemical Resistance Test **Pass**

The surface finish shall be unaffected by the 16 reagents used. Any superficial surface change shall be easily repairable by using abrasive and/or polishing compounds.

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5.6 Heated Pan Test **Pass**

After three applications of a 6 inch diameter aluminum disk heated to 365°F, no cracking, crazing, or blistering shall be observed on the test sample.

5.7 Hot Wax Test **Pass**

During the application of 10 ounces of bath wax, heated to 365°F, into both bowls of the unit with the drain both sealed and unsealed, no cracking, crazing, or blistering shall be observed on the test sample.

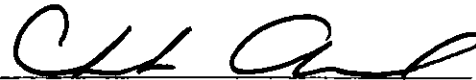
6.0 Materials Testing

6.1 Water Resistance Test **Pass**

At the conclusion of the testing no cracking, crazing, blistering or peeling was observed. The unit passed the ANSI requirement of 250 test cycles.

Comments:

The plastic kitchen sink, as selected, **passed** all the requirements of the sections contained in this report in accordance with the ANSI Z124.6-2007 Standard. These tests were conducted under the direct supervision of laboratory personnel. The unit was not damaged during shipping and it did not appear that the unit was tampered with prior to arrival.



CHARLES P. ARNOLD
Laboratory Services

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