

REPORT OF WATER RESISTANCE
TEST RESULTS
DETERMINED BY
ANSI Z124.6-2007
SECTION 6.1
For Solid Surface Materials

Prepared for:

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Materials Tested:
Two Solid Surface Kitchen Sink Bottoms

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I. PURPOSE

The finished surfaces of a kitchen sink is directly exposed to many hours of hot and cold water over the life span of the unit. Often times the kitchen sink is exposed to near boiling water followed immediately by cold water. The purpose of this sink test was to predict any cracking, crazing, blistering, or delamination in the finished surface due to this exposure.

II. BACKGROUND

Griffom requested that the NAHB Research Center, Inc., conduct a thermal shock (water resistance) testing on two solid surface kitchen sink bottoms. The kitchen sinks were received by the Research Center on October 12, 2007, and testing was initiated on October 23, 2007. Testing was completed on October 24, 2007. The sinks were labeled #1 and #2 by NAHB Research Center staff.

III. TEST METHODOLOGY

Test Procedure

The standard procedures for evaluating the quality of kitchen sinks are defined in the ANSI Z124.6-2007 test standard for plastic sinks. This test utilized Section 6.1 of this test standard, which defines the procedures and performance requirements of the water resistance (thermal shock) test. The thermal shock test is intended to simulate any visual cracking, crazing, blistering or peeling of the finished surface by exposing an actual kitchen sink to alternating cycles of hot and cold water. Water flowing at 1 gal/min and at 190°F is impinged on the surface of the sink for 90 seconds, immediately followed by 90 seconds of water impingement at 1 gal/min at 70°F. This constitutes one cycle.

Performance Requirements

Kitchen sinks must survive 250 test cycles without exhibiting any cracking, crazing, blistering, peeling, or delamination to meet the performance requirement of the test standard.

IV. TEST RESULTS

Summary of Test Results

The overall performance of the kitchen sinks are summarized in the following table.

Sink Style / ID#	Color	Test Cycles	Test Result	Failure Mode
#1 Sink Bottom	White	250	Pass	None
#2 Sink Bottom	White	250	Pass	None

V. DISCUSSION OF RESULTS

All of the kitchen sink bottoms passed the performance requirement of section 6.1 of the ANSI Z124.6-2007 test standard. The kitchen sinks did not exhibit cracking and/or crazing before the required 250 test cycles.



Charles Arnold
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