
Methods of testing plastics and composite materials sanitary plumbing fixtures

Method 23: Determination of resistance to heat of the surface of sinks

1 SCOPE

This Standard sets out a method for determining the resistance to heat of the surface of plastics sinks.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

AS

3558 Methods of testing plastics and composite materials sanitary plumbing fixtures

3558.6 Method 6: Visual examination of surface finish for defects

3 PRINCIPLE

A heated plate is placed on the bottom of the sink bowl in a prescribed program. The sink is then visually examined.

4 APPARATUS

The following apparatus is required:

- (a) A flat aluminium or copper plate 5 ± 1 mm thick and of 150 mm min. in diameter.
- (b) An oven capable of maintaining a temperature of $230 \pm 5^\circ\text{C}$.
- (c) A felt pen or similar marking device.

5 PROCEDURE

The procedure shall be as follows:

- (a) Mark the test area on the sink drainer (or bottom of sink bowl if drainer is not provided) with a 250 ± 20 mm circle. Select a surface that permits maximum contact.
- (b) Preheat the oven to a temperature of $230 \pm 5^\circ\text{C}$.
- (c) Place the plate in the oven for 15 ± 0.5 min.
- (d) Remove the plate from the oven and immediately place on test area.
- (e) After 10 ± 0.5 min, remove the plate from the test area.
- (f) Repeat Steps (b) to (e) a further two times.
- (g) Allow the sink to remain in ambient conditions for 4 h.
- (h) Inspect the sink in accordance with AS 3558.6.

6 REPORT

The following shall be reported:

- (a) Identification of test specimen(s).
- (b) General description of test specimen(s).
- (c) The presence or absence of any cracking, crazing, blistering, or delamination.
- (d) Any discoloration as follows:
 - (i) Unaffected—no colour change and no change in surface texture.
 - (ii) Removable—discoloration that can be removed by abrading the surface and repolishing to a maximum depth of 0.15 mm.
 - (iii) Severe—discoloration that cannot be removed.
- (e) The number of this Australian Standard, i.e. AS 3558.23.