

Australian/New Zealand Standard®

Plastic roof and wall cladding materials— Methods of test

Method 2: Determination of dimensional stability at 60°C

1 SCOPE This Standard sets out a method for determining the dimensional stability of plastic building sheets at a temperature of 60°C.

2 REFERENCED DOCUMENT The following document is referred to in this Standard:

AS/NZS

4257 Plastic roof and wall cladding materials—Methods of test

4257.1 Method 1: Determination of dimensional properties

3 APPARATUS A suitable hot air oven capable of being controlled to a temperature of $60 \pm 2^\circ\text{C}$.

4 TEST SPECIMENS Cut three rectangular test specimens, where possible, from across the sheet, from a representative sample (see AS/NZS 4257.1). Test specimens shall be not less than 300 mm long and not less than 300 mm wide or three profiles (for profiled sheet), whichever is greater, or full sheet width (for cladding).

5 PROCEDURE The procedure shall be as follows:

- (a) **Length** Inscribe on each test specimen three sets of equally spaced marks not less than 200 mm apart, one set at each side and one set centrally on the sheet. Measure the length of each test specimen between the inscribed marks and calculate the average length and width of each specimen as the mean of the three lengths measured.
- (b) **Width** Inscribe on each test specimen three sets of marks not less than 125 mm apart, one set at each end and one set centrally on the sheet. For profiled sheets, these marks shall be placed on the crown of the profile; for non-profiled sheets, within 50 mm of the sheet edge. Measure the distance between the three sets of inscribed marks and calculate the average width or width between profiles as the mean of the three widths measured.
- (c) Place three test specimens in the hot air oven at a temperature of $60 \pm 2^\circ\text{C}$ and maintain them at this temperature for 1 h. Test specimens must be placed so that they are not under any strain.
- (d) Remove test specimens from the oven and allow them to cool on a flat surface at approximately 23°C for 1 hour.
- (e) Repeat the measurements carried out in Steps (a) and (b) and calculate percentage change of length and width due to the heating of each specimen.

6 REPORT The following information shall be reported:

- (a) Description of material.
- (b) Dimensional stability at 60°C as the percentage changes in length and width.
- (c) Reference to this Australian/New Zealand Standard, i.e. AS/NZS 4257.2.

This Joint Australian/New Zealand Standard was prepared by the Joint Technical Committee PL/22, Plastic Building Sheets. It was approved on behalf of the Council of Standards Australia on 8 September 1994 and on behalf of the Council of Standards New Zealand on 17 October 1994 and published on 5 December 1994.

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