

Australian Standard™

Methods for testing flexible cellular polyurethane

Method 5: Determination of cell count

PREFACE

This Standard was prepared by the Standards Australia Committee PL/36, Flexible Polyurethane, to supersede AS 2282.5—1979.

METHOD

1 SCOPE This Standard sets out a method for determining the cell count on the surface of flexible cellular polyurethane.

2 PRINCIPLE The number of cells along a 25 mm length is counted using a thread counting glass or other suitable optical instrument.

3 APPARATUS The thread counting glass or other suitable optical instrument shall have an aperture of 25 ± 0.2 mm.

4 TEST PIECES The determination shall be made on three representative test pieces. The cell count may be made on unconditioned test pieces.

5 PROCEDURE The procedure shall be as follows:

- (a) Lay out the test piece free from applied tension and count the cells against the counting edge of the glass.
- (b) In each determination, make three counts on each direction tested and determine the average for each direction.
- (c) If the material is more than 25 mm thick, count the cells in three directions and determine the average. If the material is less than 25 mm thick, count the cells in the two principal directions and determine the average.

NOTE: An area of the surface to be examined may be smeared with suitable marking fluid, or otherwise treated to assist distinguishing cells from cells below the surface.

6 REPORT The report shall include the following information:

- (a) The average of the three counts for each direction.
- (b) The average for the two or three directions counted, whichever is applicable.
- (c) The number of this Australian Standard, i.e. AS 2282.5.