

Australian Standard™

Methods for testing flexible cellular polyurethane

Method 3: Determination of apparent density

PREFACE

This Standard was prepared by the Standards Australia Committee PL/36, Flexible Polyurethane, to supersede AS 2282.3—1979.

During the preparation of this revision cognizance was taken of ISO 845:1988, *Cellular plastics and rubbers—Determination of apparent (bulk) density*.

METHOD

1 SCOPE This Standard sets out a method for determining the apparent density of cellular materials. It is primarily intended for flexible cellular materials.

NOTE: An alternative method for material up to 13 mm thick is given in AS 2282.4.

2 REFERENCED DOCUMENTS The documents below are referred to in this Standard:

AS

2282	Methods for testing flexible cellular polyurethane
2282.1	Method 1: Sampling and conditioning of test specimens
2282.2	Method 2: Measurements of dimensions of test specimens
2282.4	Method 4: Determination of apparent density of flexible cellular polyurethane sheeting up to 13 mm thick

3 DEFINITION For the purpose of this Standard, the definition below applies.

3.1 Apparent density—the mass per unit volume of the cellular material in air, at a stated temperature and relative humidity.

4 PRINCIPLE The apparent density is determined by weighing a known volume of material and dividing the mass by the measured volume.

5 APPARATUS The following apparatus is required:

- Balance**, capable of weighing to an accuracy of 0.5 percent or 0.01 g.
- Means of measuring the dimensions of the test piece**, in accordance with AS 2282.2.