

# Australian Standard™

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## Methods for testing flexible cellular polyurethane

### Method 13: Determination of solvent swelling

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#### PREFACE

This Standard was prepared by the Standards Australia Committee PL/36, Flexible Polyurethane, to supersede AS 2282.13—1991.

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#### METHOD

**1 SCOPE** This Standard sets out a method for determining the amount of swelling that may occur when flexible cellular polyurethane is in contact with solvents.

**2 REFERENCED DOCUMENTS** The following documents 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: Measurement of dimensions of test specimens

**3 PRINCIPLE** The tendency of flexible cellular polyurethane to swell when in contact with solvents is assessed by measuring the temporary and permanent percentage volume swelling of the material in a solvent, under specified conditions.

**4 REAGENT** The reagent shall be a nominated solvent of specified quality, and shall be reported in Clause 9. Fresh solvent shall be used for each test piece.

NOTE: Precautions associated with the use of toxic or flammable solvents should be observed throughout the test.

#### 5 APPARATUS

**5.1 Dish**—measuring approximately 300 mm × 200 mm and at least 50 mm deep.

**5.2 Wire gauze**—approximately 200 mm square.

NOTE: A suitable mesh for wire gauze used throughout these operations is 250 µm.

**5.3 Flat wire-gauze scoop**—consisting of a 180 mm square wire gauze with a wire frame and handle.

**5.4 Glass plate**—a 150 mm square of 6.5 mm plate glass.