AS 2313.2.2—2005

Australian Standard™

Methods of test for single sided and double sided pressure-sensitive adhesion tape

Method 2.2: Physical properties—Elongation

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Methods of test for single sided and double sided pressure-sensitive adhesion tape

Method 2.2: Physical properties—Elongation

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PREFACE

This Standard was prepared by the Standards Australia Committee PK-025, Packaging Code to supersede, AS/NZS 1635.6.1:1995, *Methods of test for pressure-sensitive adhesive tape*, Part 6.1: *Elongation*.

The objective of this edition is to revise the apparatus and materials used in the procedure of the Standard.

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STANDARDS AUSTRALIA

Australian Standard

Methods of test for single sided and double sided pressure-sensitive adhesion tape

Method 2.2: Physical properties—Elongation

1 SCOPE

This Standard specifies the method for determining the elongation at break of pressure-sensitive adhesive tape.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS
2193 Calibration and clarification of force-measuring systems

3 DEFINITIONS

For the purpose of this document, the following terms and definitions apply.

3.1.1 *Elastic elongation*

Tapes, that exceed 200% elongation are considered to be elastic.

3.1.2 *Non-elastic elongation*

Tapes with elongation less than 200% are considered to be non-elastic.

4 APPARATUS AND MATERIALS

The following apparatus is required:

(a) *Tensile testing machine*—complying with the requirements of AS 2193 for Grade B machines over suitable load ranges, and having a rate of travel of 300 ±10 mm/min of the moving jaw or carriage.

(b) *Specimen cutter*—consisting of a 25 mm thick × 200 mm long × 25 mm wide aluminium bar stock. The edges for about 125 mm from one end shall be rounded slightly to form a handle. The width of the bar for 75 mm from the opposite end shall be narrowed to exactly 25 mm minus the thickness of a single razor blade (one of two razor blades used as cutting edges). The razor blades shall be held in position using side plates. The end of the cutter shall be cut away at a 45° angle to expose the cutting edge at one end of the blades. The edges shall be separated by a distance of 25 ±0.25 mm.

5 TEST CONDITIONS

Testing shall be conducted at 23 ±5°C and 50 ±5% relative humidity.