AS 2313.3.2—2005

Australian Standard™

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

Method 3.2: Ageing properties—Stability of cellulose tape by accelerated ageing

This Australian Standard was prepared by Committee PK-025, Packaging Code. It was approved on behalf of the Council of Standards Australia on 8 September 2005.
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Australian Paint Manufacturers' Federation
Canmakers Institute of Australia
Department of Defence
Printing Industries Association of Australia

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Methods of test for single sided and double sided pressure sensitive adhesive tape

Method 3.2: Ageing properties—Stability of cellulose tape by accelerated ageing

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PREFACE

This Standard was prepared by the Standards Australia Committee PK-025, Packaging Code to supersede AS/NZS 1635.4.2:1995, *Methods of test for pressure-sensitive adhesive tape*, Part 4.2: *Stability—Accelerated ageing of cellulose tape*.

The objective of this edition is to revise the apparatus and materials used in the test methods of the AS 1635 series.

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STANDARDS AUSTRALIA

Australian Standard

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

Method 3.2: Ageing properties—Stability of cellulose tape by accelerated ageing

1 SCOPE

This Standard specifies the method for determining the stability of pressure sensitive adhesive cellulose tape by observation and measurement of adhesion strength, after accelerated ageing at elevated temperature and humidity.

2 REFERENCE DOCUMENTS

The following documents are referred to in this Standard:

AS

1683 Methods of test for elastomers

1683.15.2 Method 15.2: Durometer hardness

2313 Methods of test for single sided and double sided pressure-sensitive adhesive tape

2313.3.1 Method 3.1: Ageing properties—Accelerated ageing

3 REAGENT

3.1 Isopropynol

Reagent grade, is required.

NOTE: A substitute of isopropynol is acetone, reagent grade.

4 APPARATUS AND MATERIALS

The following apparatus and materials are required:

(a) *Electric oven*

Thermostatically controlled to a temperature of 65 ±2°C.

(b) *Humidity cabinet*

Providing a relative humidity of 80 ±5% at a temperature of 65 ±2°C with no condensation on the test panels. Alternatively, a desiccator or other suitable vessel containing a saturated solution of ammonium sulfate may be used to provide an atmosphere of approximately 80% relative humidity when maintained at a temperature of 65 ±2°C in a suitably regulated electric oven.

(c) *Stainless steel panels*

Approximately 50 mm wide, at least 125 mm long, and approximately 1.5 mm thick and finished in the lengthwise direction to a bright annealed finish which has a surface finish of 0.04 μm. A minimum of two panels is required.