

Australian Standard™

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

**Method 1.5: Adhesion—Adhesion  
strength to own backing**

**STANDARDS**  
Australia



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Australian Paints Manufacturers Federation  
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## PREFACE

This Standard was prepared by Standards Australia Committee PK-025, Packaging Code to supersede AS 1635.3.6—1993, *Methods of test for pressure-sensitive adhesive tape, Part 3.6: Adhesion strength to own backing*.

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 adhesive tape**

## Method 1.5: Adhesion—Adhesion strength to own backing

**1 SCOPE**

This Standard specifies the method for determining the peel adhesion strength of pressure-sensitive adhesive tape to its own backing.

**2 REFERENCED 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

2193 Calibration and classification of force-measuring systems

**3 REAGENT****3.1 Isopropynol**

Reagent grade is required.

NOTE: Acetone, reagent grade, may also be used.

**4 TEST CONDITIONS**

The following apparatus and materials are required:

(a) *Tension testing machine*

Complying with the requirements of AS 2193 for Grade B machines over suitable load ranges, and having a moving jaw or carriage with a rate of travel  $300 \pm 10$  mm/min.

(b) *Stainless steel panel*

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 with a surface finish of  $0.04 \mu\text{m}$ .

(c) *Steel roller (see Figure 1)*

Of diameter  $80 \pm 5$  mm and width  $45 \pm 1$  mm, covered with rubber approximately 6 mm thick, and having a durometer hardness of  $80 \pm 5$ . Type A degrees (in accordance with AS 1683.15.2).

NOTE: The mass of the roller proper (which applies pressure to the specimen) should be  $2.0 \pm 0.1$  kg. It should be so constructed that the mass of the handle is not added to the mass of the roller during use.

(d) *Fresh absorbent cleaning material*

These cleaning materials shall be lint free and contain no soluble additives.

*Example:* Surgical gauze, untreated paper tissue.