AS 2313.1.8—2005

Australian Standard™

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

Method 1.8: Adhesion—Resistance to dynamic shear load at elevated temperature

This Australian Standard was prepared by Committee PK-025, Packaging Code. It was approved on behalf of the Council of Standards Australia on 26 September 2005.
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The following are represented on Committee PK-025:

Australian Paints Manufacturers Federation
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PREFACE

This Standard was prepared by the Standards Australia Committee PK-025, Packaging Code at the request of the Australian Industry.

The objective of this Standard is to specify a method for dynamic shear for single and double sided pressure-sensitive tapes.This Standard was prepared by the Standards Australia Committee PK-025, Packaging Code

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1 SCOPE

This Standard specifies the method for determining the ability of pressure-sensitive adhesive tape to resist dynamic shear loading at elevated temperatures.

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 REAGENTS

3.1 Isopropynol

Reagent grade, is required.

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

3.2 Apparatus and materials

The following apparatus and materials are required:

(a) *Tensile testing machine*

The tensile testing machine shall have a rate of travel 300 ±10 mm/min of the moving jaw or carriage. The initial clear spacing between the machine jaws shall be 125 mm.

The calibration of the tensile testing machine shall comply with Grade B of AS 2193.

(b) *Steel roller (see Figure 1)*—

Of diameter 80 ±5 mm and width 45 ±1 mm, covered with rubber approximately 6 mm thick, and having a durometer hardness of 80 ±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 ±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.

(c) *Two 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.

