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.
This Standard was published on 28 October 2005.

The following are represented on Committee PK-025:

Australian Paints Manufacturers Federation
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This Standard was issued in draft form for comment as DR 05307.

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First published as AS 2313.1.8—2005.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 6952 7

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.