AS 2313.1.9—2005

Australian Standard™

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

Method 1.9: Adhesion—Resistance to shear peel at elevated temperature

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Australian Paints Manufacturers' Federation
Canmakers Institute of Australia
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Printing Industries Association of Australia

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PREFACE

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

The objective of this Standard is to specify a method of test to determine shear peel strength of pressure sensitive adhesive tape at elevated temperatures.

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STANDARDS AUSTRALIA

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1 SCOPE

This Standard specifies the method to determine shear peel strength of single and double sided pressure-sensitive adhesive tape at elevated temperature.

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.

4 APPARATUS AND MATERIALS

The following apparatus is required:

4.1 Tension testing machine

The tensile testing machine shall have a moving jaw or carriage with a rate of travel of 300 ±10 mm/min. The testing unit shall comply with the requirements of AS 2193 for Grade B machines over suitable load ranges.

4.2 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 μm.

4.3 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.

4.4 Fresh absorbent cleaning material

E.g. surgical gauze, untreated paper tissue.