

AS/NZS 1599:1997

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Australian/New Zealand Standard[®]

**Pressure-sensitive adhesive
packaging tapes**

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The following interests are represented on Committee PK/10:

Australian Chamber of Commerce and Industry
Australian Institute of Packaging
New Zealand Manufacturers' Federation
Packaging Council of Australia

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PK/10 on Pressure Sensitive Adhesive Tapes, to supersede AS 1599—1988.

The objective of this Standard is to provide users with a pressure-sensitive adhesive packaging tape that will perform satisfactorily during packaging, sealing and labelling operations.

The principal differences between this edition and the 1988 edition are in the requirement for resistance to shear loading at elevated temperatures and the deletion of serial numbers 4, 5, 6, 10, 11, 12, 13, 26, 29, 30, 31, 32, and 33 in Table 2.1 and Table 2.2, as the types of base materials relating to these numbers are not in current use.

This Standard assigns a serial number to each kind of tape, the principal purpose of which is to facilitate ordering, particularly by the Defence Department. In this regard, the necessity for a special appendix for application by that Department has been obviated.

The Committee recognizes the continual development of a new classification of tapes and these new classes will be considered in any future publication.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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Australian/New Zealand Standard**Pressure-sensitive adhesive packaging tapes**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out performance requirements for pressure-sensitive adhesive packaging tapes commonly used in packaging, sealing and labelling operations.

NOTE: Purchasing guidelines and the main applications of the various tapes are given in Appendix A.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- 1602 Pressure-sensitive adhesive filmic tapes for general office applications
- 1635 Methods of test for pressure-sensitive adhesive tape
- 1635.3.1 Method 3.1: Adhesion strength
- 1635.3.3 Method 3.3: Quickstick
- 1635.3.5 Method 3.5: Adhesion strength after water immersion
- 1635.3.6 Method 3.6: Adhesion strength to own backing
- 1635.4.1 Method 4.1: Stability of tape other than cellulose tape—Accelerated ageing
- 2400 Packaging
- 2400.1 Part 1: Glossary of packaging terms

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- 1635.5.1 Method 5.1: Breaking strength
- 1635.6.1 Method 6.1: Elongation
- 1635.7.1 Method 7.1: Unwind force
- 1635.8.1 Method 8.1: Length
- 1635.9.1 Method 9.1: Thickness
- 1635.10.1 Method 10.1: Resistance to shear loading at elevated temperatures
- 1635.11.1 Method 11.1: Water vapour transmission rate.

1.3 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2400.1 apply.

1.4 DESCRIPTION Pressure-sensitive adhesive packaging tapes consist of a wide variety of base materials (e.g. paper, cloth, filmic, laminated), coated uniformly with a suitable adhesive composition and wound evenly into rolls on suitable cores.

NOTE: A condition sometimes exists in fresh tape, where the adhesive surface appears to be pockmarked. These pockmarks, commonly called fisheyes, result from small amounts of air entrapped between layers of tape during winding and in no way affect the quality or performance of the tape since they flow out and disappear in time. This condition should not be considered as evidence of a lack of uniformity of adhesive coating.