

Physical testing of rubber —

**Part A3: Method for determination of
tear strength, (trouser, angle and
crescent test pieces)**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PRI/22, Physical testing of rubber, upon which the following bodies were represented:

- British Railways Board
- British Rubber Manufacturers' Association Ltd.
- GAMBICA (BEAMA Ltd.)
- Malaysian Rubber Producers' Research Association
- Ministry of Defence
- RAPRA Technology Ltd.
- SATRA Footwear Technology Centre
- Coopted member

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National foreword

This Part of BS 903 has been prepared by Technical Committee PRI/22. It is identical with ISO 34-1:1994 *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces*, published by the International Organization for Standardization (ISO). This edition supersedes BS 903-A3:1982 which is withdrawn.

This edition of BS 903-A3 differs from the 1982 edition as follows.

- a) Provision is made for the testing of thermoplastics rubbers.
- b) The accuracy of measurement for the nick cutter has been extended to 0.05 mm (see 5.2).

Cross-references

International standard	Corresponding British Standard
	BS 903 <i>Physical testing of rubber</i>
ISO 471:1983	Part A35:1985 <i>Temperatures, humidities and times for conditioning and testing of test pieces</i> (Identical)
ISO 3383:1985	Part A32:1988 <i>General directions for achieving elevated or subnormal temperatures for test purposes</i> (Identical)
ISO 4648:1991	Part A38:1991 <i>Methods for the determination of dimensions of test pieces and products for test purposes</i> (Identical)
ISO 5893:1993	BS 5214 <i>Test machines for rubber and plastics</i> Part 1:1975 <i>Tensile, flexural and compression machines</i> (Technically equivalent)
ISO 6133:1981	BS 903 <i>Physical testing of rubber</i> Part A47:1982 <i>Analysis of multi-peak traces obtained in determinations of tear strength and adhesion strength</i> (Identical)

A British Standard related to ISO 8126:1981 is BS 903-A19:1986 *Methods of testing vulcanized rubber Part A19. Heat resistance and accelerated ageing*. There is no British Standard corresponding to ISO/TR 9272:1986 or ISO 816:1983.

Additional information In the UK the standard temperature (see 6.4 and 6.2) is 23 °C ± 2 °C.

NOTE The “standard temperature” is commonly referred to as the “standard laboratory temperature”.

Textual error. When adopting the text of the international standard the textual errors given below were discovered. They have been marked in the text and have been reported to ISO in a proposal to amend the text of the international standard.

Table 1. Under “Material”, the heading “Die “B” tear”, should read “Angle tear” and the heading “Die “C” tear” should read “Crescent tear”. In the latter case the words “Nick = 90° angle cut” should be deleted.

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Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.