

Flexible cellular polymeric materials - Determination of tear strength

ICS 83.100

National foreword

This British Standard is the UK implementation of EN ISO 8067:2008. It supersedes BS EN ISO 8067:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/24, Testing of rigid and flexible cellular materials.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Date	Comments

English Version

Flexible cellular polymeric materials - Determination of tear
strength (ISO 8067:2008)

Matériaux polymères alvéolaires souples - Détermination
de la résistance au déchirement (ISO 8067:2008)

Flexible Polymer-Schaumstoffe - Bestimmung des
Weiterreißwiderstands (ISO 8067:2008)

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WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This International Standard specifies two methods for the determination of the tear strength of flexible cellular polymeric materials:

- method A, using a trouser test piece;
- method B, using an angle test piece without a nick.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1923, *Cellular plastics and rubbers — Determination of linear dimensions*

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

tear strength

R

maximum force per unit thickness observed when stretching a test piece to rupture

4 Apparatus

The tear strength shall be measured on a tensile-testing machine which will indicate the force at which rupture of the test piece takes place. An automatic machine should preferably be used which draws the actual curve, or a stylus or scale should be used having an indicator that remains at the point of maximum force after rupture of the test piece.

The accuracy of the test machine shall be class 2 or better as defined in ISO 7500-1.