

STANDARD

I.S. EN 14477:2004

ICS 55.040

National Standards Authority of Ireland Dublin 9 Ireland

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PACKAGING - FLEXIBLE PACKAGING

MATERIAL - DETERMINATION OF PUNCTURE

RESISTANCE - TEST METHODS

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English version

Packaging - Flexible packaging material - Determination of puncture resistance - Test methods

Emballage - Matériaux d'emballage souples -Détermination de la résistance à la perforation - Méthodes d'essai Verpackung, Flexible Packstoffe - Bestimmung der Durchstoßfestigkeit - Prüfverfahren

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EN 14477:2004 (E)

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EN 14477:2004 (E)

Foreword

This document (EN 14477:2004) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2004 and conflicting national standards shall be withdrawn at the latest by October 2004.

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EN 14477:2004 (E)

1 Scope

This standard describes a test method of determining the puncture resistance of a flexible packaging material. The method is applicable to multilayer flexible packaging materials.

2 Principle

A specimen of the flexible packaging material is fastened in a sample holder. A probe penetrates the specimen with a constant speed. The force and the elongation needed to penetrate the specimen are recorded.

3 Apparatus

- 3.1 Universal testing apparatus, with means of measuring elongation.
- 3.2 Compression load cell
- 3.3 Penetration probe made of hardened steel as shown in Figure 1

A 0,8 mm diameter probe with a rounded tip is used. The rounded tip of the probe shall have a radius of 0,4 mm.

- **3.4 Fixture** for securing the probe to the load cell or to a solid base.
- **3.5** Sample Holder as shown in Figure 2 or equivalent.
- 3.6 Blanking punch with an outer diameter matching the diameter of the sample holder shall be used.



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