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Flexible cellular polymeric materials -
Determination of resilience by ball rebound

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

<p>Käesolev Eesti standard EVS-EN ISO 8307:2008 sisaldab Euroopa standardi EN ISO 8307:2007 ingliskeelset teksti.</p>	<p>This Estonian standard EVS-EN ISO 8307:2008 consists of the English text of the European standard EN ISO 8307:2007.</p>
<p>Standard on kinnitatud Eesti Standardikeskuse 27.02.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p>	<p>This standard is ratified with the order of Estonian Centre for Standardisation dated 27.02.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p>
<p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.12.2007.</p>	<p>Date of Availability of the European standard text 15.12.2007.</p>
<p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>The standard is available from Estonian standardisation organisation.</p>

ICS 83.100

Võtmesõnad: elastsed poormaterjalid, elastsus, kummi, määramine, plastid, polümeerid, testimine

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English Version

Flexible cellular polymeric materials - Determination of resilience by ball rebound (ISO 8307:2007)

Matériaux polymères alvéolaires souples - Détermination
de la résilience par rebondissement d'une bille (ISO
8307:2007)

Weich-elastische polymere Schaumstoffe - Bestimmung
der Kugel-Rückprallelastizität (ISO 8307:2007)

This European Standard was approved by CEN on 24 November 2007.

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Foreword

This document (EN ISO 8307:2007) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 8307:2007 has been approved by CEN as a EN ISO 8307:2007 without any modification.

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Flexible cellular polymeric materials — Determination of resilience by ball rebound

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 a method for determining the resilience by ball rebound of flexible cellular polymeric materials.

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 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*

3 Terms and definitions

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

3.1

open-cell flexible cellular material

flexible cellular material with less than 25 % of its cell volume closed

3.2

closed-cell flexible cellular material

flexible cellular material with more than 25 % of its cell volume closed

4 Principle

A steel ball is dropped on to a test piece from a specified height and the height of rebound is measured.

5 Apparatus

5.1 General

The ball rebound test apparatus (see Figure 1) shall consist of a 30 mm to 65 mm inside diameter vertical transparent tube, into which a 16 mm \pm 0,5 mm diameter steel ball with a mass of 16,8 g \pm 1,5 g is released by a magnet or other suitable device. The steel ball shall be released so that it falls without rotation and is