Packaging - Transport packages for dangerous goods - Recycled plastics material

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO
16103:2005 sisaldab Euroopa standardi
EN ISO 16103:2005 ingliskeelset teksti.

This Estonian standard EVS-EN ISO 16103:2005 consists of the English text of the European standard EN ISO 16103:2005.

Käesolev dokument on jõustatud 29.09.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

This document is endorsed on 29.09.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This International Standard specifies the requirements and test methods for the production of recycled plastics materials to be used for packagings for the transport of dangerous goods. This includes guidance on the quality assurance programme.

Scope:

This International Standard specifies the requirements and test methods for the production of recycled plastics materials to be used for packagings for the transport of dangerous goods. This includes guidance on the quality assurance programme.

ICS 13.300, 55.020

Võtmesõnad:

EUROPEAN STANDARD

EN ISO 16103

NORME EUROPÉENNE EUROPÄISCHE NORM

July 2005

ICS 13.300; 55.020

English Version

Packaging - Transport packages for dangerous goods - Recycled plastics material (ISO 16103:2005)

Emballages - Emballages de transport pour marchandises dangereuses - Matériaux plastiques recyclés (ISO 16103:2005) Verpackung - Verpackungen zur Beförderung gefährlicher Güter - Recycling-Kunststoffe (ISO 16103:2005)

This European Standard was approved by CEN on 1 June 2005.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 16103:2005) has been prepared by Technical Committee ISO/TC 122 "Packaging" in collaboration with 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 January 2006, and conflicting national standards shall be withdrawn at the latest by January 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

Approv. The text of ISO 16103:2005 has been approved by CEN as EN ISO 16103:2005 without any modifications.

INTERNATIONAL STANDARD

ISO 16103

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Packaging — Transport packaging for dangerous goods — Recycled plastics material

ges euses Emballages — Emballages de transport pour marchandises dangereuses — Matériaux plastiques recyclés



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Foreword

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

ISO 16103 was prepared by Technical Committee ISO/TC 122, Packaging, Subcommittee SC 3, Performance pac. requirements and tests for means of packaging, packages and unit loads (as required by ISO/TC 122).

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Introduction

The aim of this International Standard is to specify sufficiently the necessary controls for the use of recycled plastics materials as identified in the *United Nations Recommendations on the Transport of Dangerous Goods*, by selection into batches. Packagings produced from each batch of recycled plastics material undergo mechanical testing as in design type testing.

These Recommendations are given legal entity by the provisions of a series of modal agreements for the international transport of dangerous goods:

- the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) (see [1] in the Bibliography);
- the International Civil Aviation Organization's *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (see [2] in the Bibliography);
- the International Maritime Dangerous Goods Code (see [3] in the Bibliography);
- the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) (see [4] in the Bibliography).

The application of this International Standard needs to take account of the requirements of these international agreements and the relevant national regulations for domestic transport of dangerous goods.

Packaging — Transport packaging for dangerous goods — Recycled plastics material

1 Scope

This International Standard specifies the requirements and test methods for the production of recycled plastics materials to be used for packagings for the transport of dangerous goods. This includes guidance on the quality assurance programme.

NOTE The quality assurance programme for the production of packagings is described in ISO 16106 (see [5] in the Bibliography).

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 527-1, Plastics — Determination of tensile properties — Part 1: General principles

ISO 527-2, Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics

ISO 1133, Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics

ISO 1183-1, Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pyknometer method and titration method

ISO 12048, Packaging — Complete, filled transport packages — Compression and stacking tests using a compression tester

ISO 16101, Packaging — Transport packaging for dangerous goods — Plastics compatibility testing

ISO 16104, Packaging — Transport packaging for dangerous goods — Test methods

United Nations Recommendations on the Transport of Dangerous Goods — Model Regulations, ST/SG/AC. 10/1/Rev.13: United Nations, ISBN 92-1-139090-7

3 Terms and definitions

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

3.1

recycled plastics material

material recovered from used industrial packagings that has been cleaned and prepared for processing into new packagings

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