

Thermoplastic elastomers - Nomenclature and abbreviated

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 18064:2005 sisaldab Euroopa standardi EN ISO 18064:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 18064:2005 consists of the English text of the European standard EN ISO 18064:2005.</p> <p>This document is endorsed on 28.04.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This International Standard establishes a nomenclature system for thermoplastic elastomers based on the chemical composition of the polymer or polymers involved. It defines symbols and abbreviated terms used to identify thermoplastic elastomers in industry, commerce and government. It is not intended to conflict with, but to supplement, existing trade names and trademarks.</p>	<p>Scope:</p> <p>This International Standard establishes a nomenclature system for thermoplastic elastomers based on the chemical composition of the polymer or polymers involved. It defines symbols and abbreviated terms used to identify thermoplastic elastomers in industry, commerce and government. It is not intended to conflict with, but to supplement, existing trade names and trademarks.</p>
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English version

Thermoplastic elastomers - Nomenclature and abbreviated terms (ISO 18064:2003)

Élastomères thermoplastiques - Nomenclature et termes abrégé (ISO 18064:2003)

Thermoplastische Elastomere - Nomenklatur und Kurzzeichen (ISO 18064:2003)

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Foreword

The text of ISO 18064:2003 has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18064:2005 by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

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Endorsement notice

The text of ISO 18064:2003 has been approved by CEN as EN ISO 18064:2005 without any modifications.

**Thermoplastic elastomers —
Nomenclature and abbreviated terms**

Élastomères thermoplastiques — Nomenclature et termes abrégés



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Generic terms and definitions	1
3.1 TPE	1
3.2 TP	1
4 Nomenclature system	2
5 Categories of thermoplastic elastomer	2
5.1 TPA	2
5.2 TPC	2
5.3 TPO	2
5.4 TPS	2
5.5 TPU	2
5.6 TPV	2
5.7 TPZ	2
6 Materials in each TPE category	3
6.1 Polyamide TPEs (TPAs)	3
6.2 Copolyester TPEs (TPCs)	3
6.3 Olefinic TPEs (TPOs)	3
6.4 Styrenic TPEs (TPSs)	3
6.5 Urethane TPEs (TPUs)	4
6.6 Dynamically vulcanized TPEs (TPVs)	4
6.7 Miscellaneous material (TPZ)	4
Annex A (informative) Formerly used abbreviated terms	5

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 18064 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

Introduction

Thermoplastic elastomers combine many of the attributes and features of both vulcanized thermoset rubber and thermoplastic materials. It is, therefore, important that any system of classification and nomenclature for this rapidly expanding polymer sector should be acceptable to both the rubber and plastics industries. Neither of the existing standards for the nomenclature and abbreviated terms for rubber (ISO 1629) and for plastics (ISO 1043-1) is suitable for this purpose. The system in this International Standard has been devised to avoid any conflict of interests or ambiguity, permit the use of existing terms in the construction of abbreviations for thermoplastic elastomers, and allow for future developments or expansion.

This International Standard uses established abbreviated terms. Its aim is both to prevent the occurrence of more than one abbreviated term for a given thermoplastic elastomer term, and to prevent the interpretation of more than one meaning for a given abbreviated term. For this reason, this International Standard makes appropriate use of the terms and symbols listed in ISO 1043-1 and ISO 1629.

Thermoplastic elastomers — Nomenclature and abbreviated terms

1 Scope

This International Standard establishes a nomenclature system for thermoplastic elastomers based on the chemical composition of the polymer or polymers involved. It defines symbols and abbreviated terms used to identify thermoplastic elastomers in industry, commerce and government. It is not intended to conflict with, but to supplement, existing trade names and trademarks.

NOTE 1 The name of the thermoplastic elastomer should be used in technical papers and presentations followed by the abbreviated term used to designate the elastomer in this International Standard.

NOTE 2 Annex A gives thermoplastic elastomer abbreviated terms that have been used in the past in materials standards, technical bulletins, textbooks, patents and trade literature.

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 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

ISO 1629, *Rubber and latices — Nomenclature*

3 Generic terms and definitions

3.1 TPE

Thermoplastic elastomer, consisting of a polymer or blend of polymers that has properties at its service temperature similar to those of vulcanized rubber but can be processed and reprocessed at elevated temperature like a thermoplastic.

NOTE Thermoplastic rubber is a commonly used term for thermoplastic elastomer.

3.2 TP

Prefix used to identify that the abbreviated term is for a thermoplastic elastomer.