

**Plastid. Polükarbonaadist (PC) vormimis- ja ekstrusioonimaterjalid. Osa 1:
Tähistussüsteem ja alus tehniliste andmete jaoks**

Plastics - Polycarbonate (PC) moulding and extrusion materials - Part 1: Designation system and basis for specifications

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 7391-1:2006 sisaldab Euroopa standardi EN ISO 7391-1:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2006 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 7391-1:2006 consists of the English text of the European standard EN ISO 7391-1:2006.</p> <p>This document is endorsed on 28.04.2006 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: This part of ISO 7391 establishes a system of designation for polycarbonate thermoplastic material, which may be used as the basis for specifications.</p>	<p>Scope: This part of ISO 7391 establishes a system of designation for polycarbonate thermoplastic material, which may be used as the basis for specifications.</p>
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ICS 83.080.20

Võtmesõnad:

English Version

Plastics - Polycarbonate (PC) moulding and extrusion materials -
Part 1: Designation system and basis for specifications (ISO
7391-1:2006)

Plastiques - Polycarbonate (PC) pour moulage et extrusion
- Partie 1: Système de désignation et base de spécification
(ISO 7391-1:2006)

Kunststoffe - Polycarbonat (PC)-Formmassen - Teil 1:
Bezeichnungssystem und Basis für Spezifikationen (ISO
7391-1:2006)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 7391-1:2006) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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of an identical text or by endorsement, at the latest by September 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

This document supersedes EN ISO 7391-1:1999.

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, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 7391-1:2006 has been approved by CEN as EN ISO 7391-1:2006 without any modifications.

**Plastics — Polycarbonate (PC) moulding
and extrusion materials —**

**Part 1:
Designation system and basis
for specifications**

Plastiques — Polycarbonate (PC) pour moulage et extrusion —

Partie 1: Système de désignation et base de spécification



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Published in Switzerland

Contents

Page

Foreword.....	iv
1 Scope.....	1
2 Normative references	1
3 Designation system	2
3.1 General.....	2
3.2 Data block 1.....	2
3.3 Data block 2.....	2
3.4 Data block 3.....	3
3.4.1 General.....	3
3.4.2 Viscosity number	3
3.4.3 Melt volume-flow rate	4
3.4.4 Charpy impact strength.....	4
3.5 Data block 4.....	5
3.6 Data block 5.....	5
4 Examples of designations	6
4.1 Designation only.....	6
4.2 Designation transformed into a specification	7

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 7391-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 7391-1:1996), which has been technically revised.

ISO 7391 consists of the following parts, under the general title *Plastics — Polycarbonate (PC) moulding and extrusion materials*:

- *Part 1: Designation system and basis for specifications*
- *Part 2: Preparation of test specimens and determination of properties*

Plastics — Polycarbonate (PC) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

1 Scope

1.1 This part of ISO 7391 establishes a system of designation for polycarbonate thermoplastic material, which may be used as the basis for specifications.

1.2 The types of polycarbonate plastic are differentiated from each other by a classification system based on appropriate levels of the designatory properties

- a) viscosity number;
- b) melt volume-flow rate;
- c) Charpy impact strength;

and on information about the intended application and/or method of processing, important properties, additives, colorants, fillers and reinforcing materials.

1.3 This part of ISO 7391 is applicable to thermoplastic polyesters of carbonic acid and aromatic dihydroxy compounds. The polyester may be a homopolymer, a copolymer or a mixture of the two.

It applies to materials ready for normal use in the form of powder, granules or pellets and to materials unmodified or modified by colorants, additives, fillers, etc.

1.4 It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 7391 does not provide engineering data, performance data or data on processing conditions which may be required to specify a material for a particular application and/or method of processing.

If such additional properties are required, they shall be determined in accordance with the test methods specified in Part 2 of this International Standard, if suitable.

1.5 In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements may be given in data block 5 (see 3.1).

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 7391-2, *Plastics — Polycarbonate (PC) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties*

3 Designation system

3.1 General

The designation system for thermoplastics is based on the following standard pattern:

Designation						
Description block (optional)	Identity block					
	International Standard number block	Individual-item block				
		Data block 1	Data block 2	Data block 3	Data block 4	Data block 5

The designation consists of an optional description block, reading “Thermoplastics”, and an identity block comprising the International Standard number and an individual-item block. For unambiguous designation, the individual-item block is subdivided into five data blocks comprising the following information:

- Data block 1: Identification of the plastic by its symbol PC in accordance with ISO 1043-1 (see 3.2).
- Data block 2: Position 1: Intended application or method of processing (see 3.3).
Positions 2 to 8: Important properties, additives and supplementary information (see 3.3).
- Data block 3: Designatory properties (see 3.4).
- Data block 4: Fillers or reinforcing materials and their nominal content (see 3.5).
- Data block 5: For the purpose of specifications, a fifth data block may be added containing additional information.

The first character of the individual-item block shall be a hyphen. The data blocks shall be separated from each other by commas.

If a data block is not used, this shall be indicated by doubling the separation sign, i.e. by two commas (,,).

3.2 Data block 1

In this data block, after the hyphen, polycarbonate plastics are identified by the symbol “PC”, in accordance with ISO 1043-1.

3.3 Data block 2

In this data block, information about intended application and/or method of processing is given in position 1 and information about important properties, additives and colour in positions 2 to 8. The code-letters used are specified in Table 1.

If information is presented in positions 2 to 8 and no specific information is given in position 1, the letter X shall be inserted in position 1.