

**Plastid. Polüpropüleenist (PP) vormimis- ja ekstrusioonimaterjalid. Osa 1: Tähistussüsteem ja tehniliste andmete alused**

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 1873-1:2000 sisaldab Euroopa standardi EN ISO 1873-1:1995 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 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 1873-1:2000 consists of the English text of the European standard EN ISO 1873-1:1995.</p> <p>This document is endorsed on 11.01.2000 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><b>Käsitlusala:</b></p> <p>Standardi käesolev osa kehtestab polüpropüleenist (PP) termoplastilise materjali tähistussüsteemi, mida võib kasutada tehniliste andmete alusmaterjalina.</p>	<p><b>Scope:</b></p>
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**ICS** 83.080.20

**Võtmesõnad:** plast, termoplastsed vaigud, vormitavad materjalid (vormimismaterjalid)

ICS 83.080.20

Descriptors: Plastics, polypropylene, moulding materials, designation system, specifications.

**English version**

Plastics

**Polypropylene (PP) moulding and extrusion materials**

Part 1: Designation system and basis for specifications

(ISO 1873-1:1995)

Plastiques; polypropylène (PP) pour  
moulage et extrusion. Partie 1: Système  
de désignation et base de spécification  
(ISO 1873-1:1995)

Kunststoffe; Polypropylen (PP)-Form-  
massen. Teil 1: Bezeichnungssystem und  
Basis für Spezifikationen  
(ISO 1873-1:1995)

This European Standard was approved by CEN on 1995-07-22 and is identical to the ISO Standard as referred to.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

## Foreword

International Standard

ISO 1873-1:1995 Plastics; polypropylene (PP) moulding and extrusion materials; designation system and basis for specifications,

which was prepared by ISO/TC 61 'Plastics' of the International Organization for Standardization (ISO), has been adopted by CEN/TC 249 'Plastics' as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by March 1996 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom.

## Endorsement notice

The text of the International Standard ISO 1873-1:1995 was approved by CEN as a European Standard without any modification.

## 1 Scope

**1.1** This part of ISO 1873 establishes a system of designation for polypropylene (PP) thermoplastic material, which may be used as the basis for specifications.

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

- a) tensile modulus of elasticity
- b) impact strength
- c) melt mass-flow rate (MFR)

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

**1.3** This part of ISO 1873 is applicable to all propylene homopolymers and to copolymers of propylene with a content of other 1-olefins of less than 50 % (*m/m*), as well as blends of polymers containing at least 50 % (*m/m*) of aforementioned polymers.

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.

This part of ISO 1873 does not apply to propylene-based rubber.

**1.4** It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 1873 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 clause 3, introductory paragraph).

**2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1873. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 1873 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1043-1:1987, *Plastics — Symbols — Part 1: Basic polymers and their special characteristics*.

ISO 1043-2:1988, *Plastics — Symbols — Part 2: Fillers and reinforcing materials*.

ISO 1133:1991, *Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics*.

ISO 1873-2:—<sup>1)</sup>, *Plastics — Polypropylene (PP) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties*.

**3 Designation and specification system**

The designation and specification system for thermoplastics is based on the following standardized 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

1) To be published. (Revision of ISO 1873-2:1989)