



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 1628-5:2015

Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 5: Thermoplastic polyester (TP) homopolymers and copolymers (ISO 1628-5:1998)

**I.S. EN ISO 1628-5:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

EN ISO 1628-5:2015

*Published:*

2015-03-11

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2015-03-28

ICS number:

83.080.10

NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

**EN ISO 1628-5**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2015

ICS 83.080.20

English Version

**Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 5: Thermoplastic polyester (TP) homopolymers and copolymers (ISO 1628-5:1998)**

Plastiques - Détermination de la viscosité des polymères en solution diluée à l'aide de viscosimètres à capillaires - Partie 5: Homopolymères et copolymères des polyesters thermoplastiques (TP) (ISO 1628-5:1998)

Kunststoffe - Bestimmung der Viskosität von Polymeren in verdünnter Lösung durch ein Kapillarviskosimeter - Teil 5: Thermoplastische Polyester(TP) Homopolymere und Copolymere (ISO 1628-5:1998)

This European Standard was approved by CEN on 1 March 2015.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## **Foreword**

The text of ISO 1628-5:1998 has been prepared by Technical Committee ISO/TC 61 “Plastics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1628-5:2015 by 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of an identical text or by endorsement, at the latest by September 2015, and conflicting national standards shall be withdrawn at the latest by September 2015.

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 1628-5:1998 has been approved by CEN as EN ISO 1628-5:2015 without any modification.

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# INTERNATIONAL STANDARD

**ISO  
1628-5**

Second edition  
1998-03-15

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## **Plastics — Determination of the viscosity of polymers in dilute solution using capillary viscometers —**

### **Part 5:**

**Thermoplastic polyester (TP) homopolymers  
and copolymers**

*Plastiques — Détermination de la viscosité des polymères en solution  
diluée à l'aide de viscosimètres à capillaires —*

*Partie 5: Homopolymères et copolymères des polyesters  
thermoplastiques (TP)*



Reference number  
ISO 1628-5:1998(E)

## ISO 1628-5:1998(E)

## 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.

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.

International Standard ISO 1628-5 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 1628-5:1986), which has been technically revised.

ISO 1628 consists of the following parts, under the general title *Plastics — Determination of the viscosity of polymers in dilute solution using capillary viscometers*:

- *Part 1: General principles*
- *Part 2: Poly(vinyl chloride) resins*
- *Part 3: Polyethylenes and polypropylenes*
- *Part 4: Polycarbonate (PC) moulding and extrusion materials*
- *Part 5: Thermoplastic polyester (TP) homopolymers and copolymers*
- *Part 6: Methyl methacrylate polymers*

Annex A of this part of ISO 1628 is for information only.

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Printed in Switzerland



# Plastics — Determination of the viscosity of polymers in dilute solution using capillary viscometers —

## Part 5:

## Thermoplastic polyester (TP) homopolymers and copolymers

### 1 Scope

This part of ISO 1628 specifies a method for the determination of the viscosity number (also referred to as “reduced viscosity”) of dilute solutions of thermoplastic polyesters (TPs) in certain specified solvents. The method is applicable to poly(ethylene terephthalate) (PET), poly(butylene terephthalate) (PBT), poly-(cyclohexylenedimethylene terephthalate) (PCT), and poly(ethylene naphthalate) (PEN), as well as to copolyesters and other polyesters, defined in ISO 7792-1, that are soluble in one of the specified solvents under the specified conditions.

The viscosity number is determined by the general procedure specified in ISO 1628-1, observing the particular conditions specified in this part of ISO 1628.

The determination of the viscosity number of a thermoplastic polyester provides a measure of the relative molecular mass of the polymer.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1628. 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 1628 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 current valid International Standards.

ISO 1628-1:—<sup>1)</sup>, *Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 1: General principles.*

ISO 3105:1994, *Glass capillary kinematic viscometers - Specifications and operating instructions.*

ISO 3451-2:1984, *Plastics - Determination of ash - Part 2: Polyalkylene terephthalates.*

ISO 7792-1:1997, *Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications.*

1) To be published. (Revision of ISO 1628-1:1984)

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