

# 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)*

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Reference number  
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**ISO 1628-5:1998(E)****Foreword**

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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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# 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.*

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