# **INTERNATIONAL STANDARD**

**ISO** 21305-1

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

Part 1:

Designation system and basis for specification

Plastiques — Matériaux à base de polycarbonate (PC) pour moulage ie de désignation de la company de la compan et extrusion —

Partie 1: Système de désignation et base de spécifications





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#### **Foreword**

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

This first edition of ISO 21305-1 cancels and replaces ISO 7391-1:2006, which has been technically revised to introduce a new designation system.

A list of all parts in the ISO 21305 series can be found on the ISO website.

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

### Part 1:

## Designation system and basis for specification

#### 1 Scope

This document establishes a system of designation for polycarbonate (PC) moulding and extrusion materials, which can be used as the basis for specifications.

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

- a) melt volume-flow rate;
- b) Charpy notched impact strength;

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

This document is applicable to all polycarbonate homopolymers and copolymers. It applies to unmodified materials ready for normal use and materials modified, for example, by colorants, additives, fillers, reinforcing materials, and polymer modifiers.

It is not intended to imply that materials having the same designation give necessarily the same performance. This document does not provide engineering data, performance data or data on processing conditions which can be required to specify a material. If such additional properties are required, they are intended to be determined in accordance with the test methods specified ISO 21305-2, if suitable.

In order to designate a thermoplastic material to meet particular specifications, the requirements are given in data block 5 (see  $\frac{4.6}{1.0}$ ).

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 21305-2, Plastics — Polycarbonate (PC) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties

#### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>