INTERNATIONAL STANDARD

ISO 13002

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Carbon fibre — Designation system for filament yarns

Fibres de carbone — Système de désignation des fils continus

Reference number
ISO 13002:1998(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 13002 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.

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Carbon fibre — Designation system for filament yarns

1 Scope

1.1 This International Standard establishes a system of designation for filament yarns of carbon fibre which may be used as the basis for specifications.

1.2 This designation system is applicable to filament yarns used for the reinforcement of polymer composites.

It does not apply to discontinuous fibre products pyrolized in the form of staple yarns, woven fabrics, braids, knits, mats, etc.

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

a) tensile modulus of elasticity;

b) tensile strength;

c) linear density.

1.4 It is not intended to imply that materials having the same designation give the same performance. This International Standard 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.

1.5 In order to specify a filament yarn for a particular application or to ensure reproducible processing, additional requirements may be given in data block 3 (see clause 3).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 1889:1997, *Reinforcement yarns — Determination of linear density*.

ISO 10618:—[1)], *Carbon fibre — Determination of tensile properties of resin-impregnated yarns.*

1) To be published.