

INTERNATIONAL
STANDARD

ISO
10371

First edition
1993-12-01

**Reinforcement materials — Braided
tapes — Basis for a specification**

Produits de renfort — Rubans tressés — Base de spécification



Reference number
ISO 10371:1993(E)

ISO 10371:1993(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 10371 was prepared by Technical Committee ISO/TC 61, *Plastics*, Sub-Committee SC 13, *Composites and reinforcement fibres*.

© ISO 1993

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Reinforcement materials — Braided tapes — Basis for a specification

1 Scope

This International Standard provides a basis for specifications applicable to braided tapes used as reinforcements in plastics. It deals with tapes braided from all types of yarn or roving.

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 139:1973, *Textiles — Standard atmospheres for conditioning and testing.*

ISO 291:1977, *Plastics — Standard atmospheres for conditioning and testing.*

ISO 1886:1990, *Reinforcement fibres — Sampling plans applicable to received batches.*

ISO 1887:1980, *Textile glass — Determination of combustible matter content.*

ISO 1889:1987, *Textile glass — Continuous filament yarns, staple fibre yarns, textured yarns and rovings (packages) — Determination of linear density.*

ISO 2797:1986, *Textile glass — Rovings — Basis for a specification.*

ISO 3598:1986, *Textile glass — Yarns — Basis for a specification.*

ISO 4603:1993, *Textile glass — Woven fabrics — Determination of thickness.*

ISO 10120:1991, *Carbon fibre — Determination of linear density.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 braided tape: A tape made by interlacing (braiding or plaiting) three or more yarns or rovings in such a way that they cross one another and are laid together in diagonal formation.

3.2 braiding: A method of interlacing yarns or rovings.

3.3 construction: The type, machine-setting and number of yarns or rovings per carrier.

3.4 carrier: The braiding-machine part on which the yarns or rovings are wound.

3.5 braid angle: The angle between the longitudinal axis of a braid and the direction of the yarn or roving.

4 Description and designation

4.1 Technical description of braided tapes

The complete description of a braided tape requires definition of the following points:

- the designation of the braid yarn(s);
- the construction of the braided tape;
- the braid angle at a specific length;
- the type of treatment;
- the mass per unit length of the tape.