INTERNATIONAL STANDARD

ISO 3302-1

First edition 1996-07-15

Rubber — Tolerances for products —

Part 1: Dimensional tolerances

Caoutchouc — Tolérances pour produits — Partie 1: Tolérances dimensionnelles



Reference number ISO 3302-1:1996(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide fed-eration 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 rep-resented on that committee. International organizations, governmental and non-governmental, in liaison with ISC, also take part in the work. ISO col-laborates closely with the International Dectrotechnical 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.

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International Organization for Standardization

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Printed in Switzerland

Introduction

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tation should take place between the interested parties. In general, softer vulcanizates (i.e. those of hardness below 50 IRHD — see ISO 48) need



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1 Scope

This part of ISO 3302 specifies classes of dimensit tolerances, and their values, for moulded, extrude and calendered solid rubber products. The relevant test methods necessary for the establishment of compliance with this International Standard are also specified.

The tolerances are primarily intended for use with vulcanized rubber but may also be suitable for products made of thermoplastic rubbers.

This part of ISO 3302 does not apply to precision toroidal sealing rings or to calendered composite products such as rubber-coated fabrics or products where a rubber coating is applied by the process of topping or skim coating.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3302. 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 3302 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3:1973, Preferred numbers — Series of preferred numbers.

ISO 48:1994, Rubber, vulcanized or thermoplastic -Determination of hardness (hardness between 10 IRHD and 100 IRHD).

ISO 471:1995, Rubber — Temperatures, humidities and times for conditioning and testing.

ISQ 2230:1973, Vulcanized rubber — Guide to stor-

ISO 4648:1991, Rubber, vulcanized or thermoplas-- Mermination of dimensions of test pieces and tic products for test purposes.

3 Measuremen of dimensions



For solid products, measurements of dimensions shall not be made until 16 h have elapsed after vulcanization, this minimum time being extended to 72 h in cases of dispute. Measurements shall be completed within 3 months after the date of despatch to the purchaser or before the product is put into use, whichever is the shorter time. Measurements shall be made at standard temperature, after conditioning (see ISO 471). Care shall be taken to ensure that the products are not subjected to adverse storage conditions (see ISO 2230) and that they are not distorted during measurement.