INTERNATIONAL STANDARD

ISO 8029

Second edition
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Plastics hose — General-purpose collapsible water hose, textile-reinforced — Specification

Tuyaux plastiques — Tuyaux d'eau écrasables d'usage général renforcés textiles — Spécifications

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8029 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This second edition cancels and replaces the first edition (ISO 8029:1985), which has been technically revised.

Introduction

This International Standard has been prepared to provide minimum requirements for the satisfactory performance of textile-reinforced thermoplastic collapsible water hose, for discharge applications, conveying water, aqueous sludge or slurries.

In view of such applications, requirements, and the corresponding tests, have been specified for exposure to laboratory light sources (see 8.2.5) and for abrasion resistance (see 8.2.6).

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1 Scope

This International Standard specifies the requirements for four types of textile-reinforced thermoplastics collapsible water hoses for general applications for use in the temperature range of −10 °C to +55 °C.

Such hoses are classified into four types, as follows:

— low pressure, designed for a maximum working pressure of up to 4,0 bar at 23 °C and up to 2,0 bar at 55 °C;

— medium pressure, for a maximum working pressure of up to 7,0 bar at 23 °C and up to 3,6 bar at 55 °C;

— high pressure, for a maximum working pressure of up to 10,0 bar at 23 °C and up to 5,1 bar at 55 °C;

— extra-high pressure, for a maximum working pressure of up to 15,5 bar at 23 °C and up to 7,9 bar at 55 °C.

This standard does not apply to products used for fire-fighting or the conveyance of drinking water.

2 Normative references

The following referenced documents are indispensable for the application 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 3, *Preferred numbers — Series of preferred numbers*

ISO 37, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

ISO 1307, *Rubber and plastics hoses — Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses*

ISO 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing*

ISO 1746:—[1)], *Rubber or plastics hoses and tubing — Bending tests*

ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps*

ISO 4892-3, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps*

ISO 4892-4, *Plastics — Methods of exposure to laboratory light sources — Part 4: Open-flame carbon-arc lamps*

1) To be published. (Revision of ISO 1746:1998)