



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 40120-2021

**Agricultural irrigation equipment - Thermoplastic collapsible
hoses for irrigation - Specifications and test methods**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this standard is equivalent to ISO 16438.2012 "Technical Specification for Thermoplastic Collapsible Hose for Irrigation of Agricultural Irrigation Equipment"

Fan and test methods.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201).

Drafting organizations of this standard. Chinese Academy of Agricultural Mechanization Sciences, Fluid Machinery Engineering Technology Research Center of Jiangsu University, National Agricultural Machinery

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1 Scope

This standard specifies the technical specifications and test methods for reinforced and non-reinforced thermoplastic collapsible hoses, which are used for transportation and distribution

Main pipelines and branch pipelines for irrigation water whose temperature is not higher than 50 degrees C.

This standard applies to irrigation with a nominal diameter of 40mm~500mm and a working pressure of 0.3bar (0.03MPa) to 6bar (0.6MPa).

hose.

This standard applies to hoses of two types of configurations, with or without outlet connectors.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 5563-2013 Rubber and plastic hoses and hose assemblies hydrostatic test method (ISO 1402.2009, IDT)

GB/T 9573-2013 Rubber and plastic hoses and hose assemblies hose size and hose assembly length measurement method (ISO 4671.2007, IDT)

GB/T 16422.3-2014 Plastic laboratory light source exposure test method Part 3. Fluorescent ultraviolet lamp (ISO 4892-3. 2006, IDT)

GB/T 21300-2007 Determination of the opacity of plastic pipes and fittings (ISO 7686.2005, IDT)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Hose

Flexible pipes for pressurized water delivery.

3.2

Collapsible hose

When there is no internal pressure, it is folded into a hose with the inner cavity surface almost touching or closed, and the hose section is flat.

Note. Rewrite ISO 8330.2007, definition 2.1.74.

3.3

Reinforced hose

A hose that incorporates a layer of material or other components in the pipe wall to improve its mechanical properties.

3.4

Non-reinforced hose

There are no hoses incorporating reinforcement layers or other components in the pipe wall.

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