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

GB/T 5565.3-2017

**Rubber and plastics hoses and tubing -- Measurement of
flexibility and stiffness -- Part 3: Bending tests at high and low
temperatures**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 5565 "rubber and plastic hoses and non-reinforced hose flexible and stiffness measurement" is divided into three parts.

--- Part 1. Room temperature bending test;

--- Part 2. Bending test below room temperature;

--- Part 3. High temperature and low temperature bending test.

This section GB/T 5565 Part 3.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using ISO 10619-3.2011 "rubber and plastic hoses and non-reinforced flexible and stiff hose test

Volumes Part 3. High temperature and low temperature bending test ".

The documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

--- GB/T 2941-2006 rubber physical test sample preparation and conditioning procedures (ISO 23529.2004, IDT)

--- GB/T 7528-2011 Rubber and plastics hoses and hose assembly terms (ISO 8330.2007, IDT)

--- GB/T 9573-2013 Rubber and plastics hoses and hose assemblies Hose size and hose assembly length measurement method

(ISO 4671.2007, IDT)

This part is proposed by China Petroleum and Chemical Industry Federation.

This part of the National Rubber and Rubber Products Standardization Technical Committee (SAC/TC35) centralized.

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1 Scope

This section GB/T 5565 specifies the determination of the bending properties of rubber and plastic hoses and non-reinforced hoses, including bending the required stress

Method, the temperature range of -60 degrees C ~.200 degrees C. The characteristics of the device limit its application to rubber and plastic with an internal diameter not greater than 12.5 mm

Material hose and non-reinforced hose.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 4671 Rubber and plastics hoses and hose assemblies Hose sizes and hose assemblies Length measurement methods (Rubber and plastic hoses and hose assemblies-Method of measurement of the dimensions of hoses and the length of hose assemblies)

ISO 8330 Rubber and plastics hoses and hose assemblies terms (Rubber and plastic hoses and hose assemblies-Vocabulary)

ISO 23529 Rubber physical test methods - Sample preparation and conditioning procedures (Rubber-General procedures for preparing and conditioning test pieces for physical test methods)

3 Terms and definitions

ISO 8330 defined and the following terms and definitions apply to this document.

3.1

Bending bending

At specified temperatures, the straight-line sample is formed or applied force to make it arc-shaped process.

3.2

Flexible flexibility

Hoses are easy to bend without any damage, such as bending, collapsing, cracking or cracking.

For example, a hose can be bent around the mandrel.

3.3

Ting stiffness

Hose bending resistance.

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