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

GB/T 39249-2020

**Rubber and plastics hoses and tubing. Textile-reinforced types.
Sub-ambient temperature crush test**

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Foreword

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

This standard uses the translation method equivalent to ISO 28702.2008 "Rubber and plastic hoses and non-reinforced hose fabric reinforced low temperature

Flattening test.

The Chinese documents that have a consistent correspondence with the international documents cited in this standard are as follows.

---GB/T 2941-2006 Rubber Physical Test Method General Procedure for Sample Preparation and Adjustment (ISO 23529.2004, IDT).

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of the National Rubber and Rubber Products Standardization Technical Committee (SAC/TC35).

Drafting organizations of this standard. Ruiyuan Rubber Products Co., Ltd., Shenyang Rubber Research and Design Institute Co., Ltd.

1 Scope

This standard specifies the test for determining the low-temperature brittleness of fabric-reinforced rubber and plastic hoses and non-reinforced hoses by flattening hose samples.

This standard only applies to hoses with a nominal inner diameter less than or equal to 100mm.

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 document.

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

ISO 23529 Rubber Physical Test Methods General Procedures for Sample Preparation and Adjustment

3 Principle

Flatten a hose sample to 50% of its inner diameter at the test temperature, and after the pressure is relieved, check whether there are cracks or other unusual phenomenon.

4 devices

4.1 Compression fixture or other appropriate device. consists of two large enough flat plates, which can squash the hose to 50% of its inner diameter.

5 Sample

Take a circular sample of about 25mm from the hose to be tested.

6 Test temperature

The test should be carried out at one of the following temperatures or the low temperature specified by other relevant product standards.

---0 degrees C+/-2 degrees C;

----10 degrees C+/-2 degrees C;

----25 degrees C+/-2 degrees C;

----40 degrees C+/-2 degrees C;

----55 degrees C+/-2 degrees C.