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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 18944.2-2022

Flexible cellular polymeric materials - Sponge and expanded cellular rubber products - Specification - Part 2: Mouldings and extrusions

Issued on: March 9, 2022 **Implemented on: October 1, 2022**

Issued by: State Administration for Market Regulation, China National Standardization Administration

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6.2 corresponds to Chapter 5 in ISO 6916-2.2001;

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is part 2 of GB/T 18944 "Specification for Sponge and Foamed Rubber Products of Flexible Porous Polymer Materials". GB/T 18944

The following sections have been published.

--- Part 1.Sheets;

--- Part 2.Molded and extruded products.

This document is revised and adopted ISO 6916-2.2001 "Specification for Flexible Porous Polymer Materials Sponges and Foamed Rubber Products Part 2

Divide. Molded and Extruded Products".

Compared with ISO 6916-2.2001, this document has made the following structural adjustments.

--- Added Chapter 3 "Terms and Definitions";

--- Chapter 4 corresponds to Chapter 3 in ISO 6916-2.2001;

--- Chapter 5 corresponds to Chapter 4 in ISO 6916-2.2001;

--- Chapter 6 corresponds to Chapter 5 and Chapter 7 in ISO 6916-2.2001, of which 6.1 corresponds to Chapter 7 in ISO 6916-2.2001,

6.2 corresponds to Chapter 5 in ISO 6916-2.2001;

--- Chapter 7 corresponds to Chapter 6, Chapter 10, Chapter 11 and Chapter 12 in ISO 6916-2.2001, of which 7.1.1 corresponds to ISO 6916-2.

6.1, 7.1.2~7.1.4 in.2001 corresponds to Chapter 10 in ISO 6916-2.2001, 7.2 corresponds to ISO 6916-2.2001

Chapter 11, 7.3 corresponds to 6.2 in ISO 6916-2.2001, and 7.4 corresponds to Chapter 12 in ISO 6916-2.2001.

The technical differences between this document and ISO 6916-2.2001 and their reasons are as follows.

--- Add two columns in Table 4, giving the suffixes F2 and F3, in order to make the series of suffixes resistant to low temperature listed in Table 4;

--- In Table 5, the suffixes "A2", "A3" and "A4" are added, and the test temperatures are "(200 +/- 2) °C", "(225 +/- 2) °C" and

"(250+/-2) degrees C", corresponding to the first column in Table 4;

---The title of Appendix A is changed to "temperature resistance performance test", the requirements for the low temperature box used in the test are added, and the Chinese documents are normatively cited

GB/T 10589;

--- Appendix B specifies that the original thickness of the sample should be measured before cutting, avoiding possible disputes;

--- In Appendix C, the steps of adjusting the sample after soaking are added to reduce the error;

---In D.1 of Appendix D, the provisions for the thickness of self-skinned porous rubber samples are added, and this part is missing from the original text of the International Standard

content;

---In D.2, the provisions for the test procedure of self-skinning porous rubber are added, and this part of the content is missing from the original text of the international standard;

--- According to the test conditions in Table 1 and Table 2, the test procedures for compression set of porous rubber of type 1 and 2 in D.2 were carried out.

Adjustment, the context in the original text of the international standard is not unified;

---In Appendix F, the requirements for the installation height of the screen and the height of the liquid B are added, which reduces the amount of damage caused by the operator.

error.

The following editorial changes have been made to this document.

Range of indicators such as force and size;

--- Use the form of "(25 +/- 5) x 10-8" instead of "25pphm" to express the ozone concentration;

--- Use the form of "+/-(dimension x 0.75%)" instead of the form of "+/-0.75%" to express the tolerance;

---In 7.1.1, the description of "see the physical performance requirements of the corresponding type for specific test conditions" is added. The original text of the international standard is only for

The test method is standardized, but not mentioned in the article;

---The B.1 has been rewritten according to the Chinese language habits and the editing habits of Chinese documents.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

---Part 1.Sheeting;

Among them, the first part has been adopted in.2003 using the translation method, which is equivalent to the Chinese national standard GB/T 18944.1 "Poroelasticity of Polymers"

Materials Sponges and Porous Rubber Articles Part 1.Sheets.

This document converts Part 2 of ISO 6916 into my country's national standard as Part 2 of GB/T 18944.

Flexible Porous Polymer Materials Sponges and Foamed Rubber Products

Specification Part 2.Molded and Extruded Articles

WARNING - Persons using this document should be familiar with normal laboratory practice. This document is not intended to involve any

All security issues. It is the user's responsibility to develop appropriate safety and health practices and ensure compliance with national regulations.

1 Scope

This document specifies the classification, materials and processes, technical requirements, test methods, and inspection regulations of sponge and foamed rubber molded and extruded products.

rules, packaging and labelling.

This document applies to one or more of natural rubber, reclaimed rubber, synthetic rubber or rubber-like materials (excluding thermoplastic rubber)

As raw material, through molding or continuous vulcanization process [i.e. hot air, microwave, infrared, liquid medium vulcanization (LCM), shear head vulcanization or upper

Conformity assessment of non-sheet porous rubber articles produced by combined vulcanization of two or more of the above-mentioned modes.

This document does not apply to latex foam and sole rubber.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the dated edition applies to this document; for undated references, the latest edition (including all amendments) applies to this document

document.

GB/T 1690 Test method for liquid resistance of vulcanized or thermoplastic rubber (GB/T 1690-2010, ISO 1817.2005,

MOD)

Note 1.There is no technical difference between the quoted content of GB/T 1690-2010 and the quoted content of ISO 1817.2005.

GB/T 3512 Vulcanized rubber or thermoplastic rubber hot air accelerated aging and heat resistance test (GB/T 3512-2014, ISO 188.

2011, IDT)

GB/T 6342 Determination of Linear Dimensions of Foamed Plastics and Rubber (GB/T 6342-1996, ISO 1923.1981, IDT)

GB/T 7759.1 Determination of Compression Set of Vulcanized Rubber or Thermoplastic Rubber Part 1.Under normal and high temperature conditions

(GB/T 7759.1-2015, ISO 815-1.2008, IDT)

Note 2.The contents of ISO 815 quoted by the original international standard are all in Part 1, so only the Chinese standard that adopts Part 1 is quoted.

GB/T 7762 Static Tensile Test for Ozone Cracking Resistance of Vulcanized Rubber or Thermoplastic Rubber (GB/T 7762-2014, ISO 1431-1.

2004, NEQ)

Note 3.There is no technical difference between the quoted content of GB/T 7762-2014 and the quoted content of ISO 1431-1.2004.

GB/T 10589 Technical Conditions of Low Temperature Test Chamber