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GB/T 30314-2021 / ISO 5470-1:2016

Replacing GB/T 30314-2013

Rubber- or Plastic-Coated Fabrics – Determination of Abrasion Resistance - Taber Abrader

橡胶或塑料涂覆织物 耐磨性的测定 泰伯法

(ISO 5470-1:2016, Rubber- or Plastics- Coated Fabrics – Determination of Abrasion Resistance – Part 1: Taber Abrader, IDT)

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Standardization Administration of the People's Republic of China.

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Foreword

This document was drafted as per the rules specified in GB/T 1.1-2020 *Directives for Standardization – Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This Document replaced GB/T 30314-2013 *Rubber or Plastic-coated Fabrics - Determination of Abrasion Resistance - Taber Abrader*. Compared with GB/T 30314-2013, the major technical changes of this Document are as follows:

--- Add non-flexible liner cardboard or its equivalent solid board for thin specimen fixation (see 4.9 of this Edition); correspondingly, add the relevant content in 4.1.3 (see 4.1.3 of this Edition);

--- Change the diameter of the specimen from 114mm into 105mm to 115mm; and also change the instruction 2 in Figure 1 accordingly (see Clause 5 of this Edition; Clause 5 of 2013 Edition);

--- Change the content of the preparation and installation of the specimen (see 7.1 of this Edition; 7.1 of 2013 Edition);

--- Change the content of the preparation of the grinding wheel surface (see 7.2.1 and 7.2.2 of this Edition; 7.2.1 and 7.2.2 of 2013 Edition).

This Document used translation method to equivalently adopt ISO 5470-1:2016 *Rubber- or Plastics-Coated Fabrics – Determination of Abrasion Resistance – Part 1: Taber Abrader*.

The Chinese documents that have a consistent correspondence with the international documents normatively cited in this document are as follows:

--- GB/T 231.1-2018 Metallic Materials - Brinell Hardness Test - Part 1: Test Method (ISO 6506-1:2014, MOD)

--- GB/T 250-2008 Textiles - Tests for Color Fastness - Grey Scale for Assessing Change in Color (ISO 105-A02:1993, IDT)

--- GB/T 2484-2018 Bonded Abrasive Products - General Requirements (ISO 525:2013, MOD)

--- GB/T 2492-2017 Bonded Abrasive Products - Permissible Unbalances of Grinding Wheels as Delivered – Testing (ISO 6103:2014, MOD)

--- GB/T 3820-1997 Determination of Thickness of Textiles and Textile Products (eqv ISO 5084:1996)

--- GB/T 4340.1-2009 Metallic Materials - Vickers Hardness Test - Part 1: Test Method (ISO 6507-1:2005, MOD)

--- GB/T 6031-2017 Rubber, Vulcanized or Thermoplastic—Determination of Hardness (Hardness between 10 IRHD and 100 IRHD) (ISO 48:2010, IDT)

--- GB/T 24133-2009 Rubber- or Plastics-Coated Fabrics - Standard Atmospheres for Conditioning and Testing (ISO 2231:1989, IDT)

--- HG/T 3050.1-2020 Rubber- or Plastics-Coated Fabrics-Determination of Roll Characteristics (ISO 2286-1:2016, IDT)

--- HG/T 3050.2-2020 Rubber- or Plastics-Coated Fabrics-Determination of Roll Characteristics- Part 2: Methods for Determination of Total Mass per Unit Area, Mass per Unit Area of Coating and Mass per Unit Area of Substrate (ISO 2286-2:2016, MOD)

--- HG/T 3050.3-2020 Rubber- or Plastics-Coated Fabrics-Determination of Roll Characteristics- Part 3: Method for Determination of Thickness (ISO 2286-3:2016, IDT)

The following editorial modifications are made to this Document:

--- changed the name of the standard to harmonize with existing standardization documents;

--- ISO 5470-1:2016 has no text content under the heading of 4.6, this Document adds descriptive text content according to the actual use of double-sided tape (see 4.6 of this Document);

--- This Document decomposes many paragraphs under the Clause and first-level headings in the original document into first-level and second-level clause descriptions (see 4.1, 4.2, 7.2 and Clause 9 of this Document).

Please note some contents of this Document may involve patents. The issuing agency of this Document shall not assume the responsibility to identify these patents.

This Document was proposed by China Petroleum and Chemical Industry Federation.

This Document shall be under the jurisdiction of Coated Products Subcommittee of National Technical Committee on Rubber and Rubber Products of Standardization Administration of China (SAC/TC 35/SC 10).

Drafting organizations of this Document: Fuzhou University; Shenyang Rubber Research and Design Institute Co., Ltd.; Sijia New Material (Shanghai) Co., Ltd.; Xiamen Kingtom Rubber Plastic Co., Ltd.; Zhejiang Baihua Rubber Belt Co., Ltd.; and Hainan Advanced Natural Rubber Composite Material Engineering Research Center Co., Ltd.

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This Document was first-time published in 2013; it is the first-time revised hereby.

Rubber- or Plastic-Coated Fabrics –

Determination of Abrasion Resistance - Taber Abrader

WARNING: Persons using this Document should be familiar with normal laboratory practice. This Document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This Document describes a method of assessing the abrasive wear resistance of coated fabrics using the Taber abrader.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

ISO 48-2 Rubber, Vulcanized or Thermoplastic – Determination of Hardness – Part 2: Hardness between 10 IRHD and 100 IRHD

ISO 105-A02 Textiles – Tests for Color Fastness – Part A02: Grey Scale for Assessing Change in Color

ISO 525 Bonded Abrasive Products – Shape Types, Designation and Marking

ISO 2231 Rubber- or Plastic-Coated Fabrics – Standard Atmospheres for Conditioning and Testing

ISO 2286 (all parts) Rubber- or Plastic-Coated Fabrics – Determination of Roll Characteristics

ISO 5084 Textiles – Determination of Thickness of Textiles and Textile Products

ISO 6103 Bonded Abrasive Products – Permissible Unbalances of Grinding Wheels as Delivered – Static Testing

ISO 6506-1 Metallic Materials – Brinell Hardness Test – Part 1: Test Method

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