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

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Carbon fibre - Designation system for filament yarns

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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 equivalent to ISO 13002.1998 "Code Designation of Carbon Fiber Filament Yarn".

A chapter "Terms and Definitions" has been added to this document.

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

1 Scope

1.1 This document specifies the code system for carbon fiber filament yarn, which can be used as the code basis for product specifications.

1.2 This document is applicable to carbon fiber filament yarns, but not to carbon fiber products such as discontinuous fiber yarns, woven fabrics, braids, knitted fabrics, and felts.

1.3 The performance of carbon fiber filament yarn is different, and its code name is different. The performance of the code name selection includes.

- a) tensile modulus of elasticity;
- b) tensile strength;
- c) Linear density.

1.4 The same code name of carbon fiber filament yarn does not mean that its performance is the same. This document does not provide practical information on the application and/or process

process parameters, performance parameters or process condition parameters.

1.5 Additional requirements are given in Data Section 3 (see Chapter 4) in order to specify the specific use of filament yarns or to ensure repeatability of processing.

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 version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 26749-2011 Determination of Tensile Properties of Carbon Fiber Dipped Yarn (ISO 10618.2004, IDT)

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Note. GB/T 7690.1-2013 Test Methods for Reinforced Yarns Part 1.Determination of Linear Density (ISO 1889.2009, IDT)

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4 code

The code rules of carbon fiber filament yarn are shown in the following table.

code

Description segment

(optional)

ID segment

No. of this document

Product Information Section

data segment 1 data segment 2 data segment 3

The code of carbon fiber filament yarn consists of description segment (optional) and identification segment. The description segment is reinforcing fiber, and the identification segment includes the document number

and product information section. In order to clarify the code, the product information segment is divided into three sub-data segments, containing the following information.

--- Data segment 1.Types of carbon fibers and product forms (see 4.1);