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

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Plastics - Vertical flame spread determination for film and sheet

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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 for Standardization Documents" drafting.

This document is equivalent to ISO 12992:2017 "Determination of Vertical Flame Spread of Plastic Films and Sheets".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Thin flexible plastic films and sheets are widely used in various fields such as packaging, construction, housing, industry and transportation, especially flexible plastic films and

The vertical flame spread of the sheet is a fire safety concern. This document gives guidelines for the determination of flexible plastic films and sheets by means of a small flame source.

method of vertical flame spread.

This document is also intended as a pre-selection test for materials used in equipment and electrical components. The final selection of material will depend on its compliance with this usage in the device.

Test results obtained only by the tests specified in this document may not fully reflect the fire hazards of plastic films and sheets.

Determination of vertical flame spread of plastic films and sheets

1 Scope

This document describes the measurement of the flame spread of plastic film and sheet specimens up to 3 mm thick with a small ignition flame in the vertical direction

Methods of performance measurement.

2 Normative references

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

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 11925-2 Tests for reaction to fire - Flammability of building products under direct flame impingement - Part 2.Single source test

Single-flame source test)

Note. GB/T 8626-2007 Test methods for flammability of building materials (ISO 11925-2:2002, IDT)

ISO 13943 Fire Safety Vocabulary (Firesafety-Vocabulary)

3 Terms and Definitions

The terms and definitions defined in ISO 13943 and the following apply to this document.

3.1

afterglow

The sustained glow of a material after the flame has ceased to be removed from the source of ignition under specified conditions, or when no flame is produced.

3.2

Flame spread time flame-spreadtime

The time required for a flame front on a burning material to travel a specified distance along a surface or to cover a specified surface area under specified conditions.

Note. The flame front refers to the boundary of the flaming burning area on the surface of the material or through the gas mixture.

3.3

flamingdroplet

Molten substance that separates from the burning object and continues to burn during the dripping process during the test.

3.4

flame position seatoflame

The location of the flame at the leading edge of the affected area.

Note. See Figure 1.

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