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

GB/T 43287-2023

**Plastics - Determination of the degree of disintegration of
plastic materials in marine habitats under real field conditions**

塑料 在实际野外条件海洋环境中塑料材料崩解度的测定

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is equivalent to ISO 22766:2020 "Determination of the Disintegration Degree of Plastic Materials in Actual Field Conditions and Marine Environments":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document describes a test method for determining the disintegration of plastic materials exposed to the marine environment under actual field conditions:

The test is preferably conducted in the sandy sub-littoral zone and true coastal zone, where there are often intentionally placed (such as biodegradable fishing nets) or due to the irresponsible behavior of humans has turned plastic materials into garbage: This depends on the physical properties, shape and size of the plastic, as well as currents and tides sports:

This document specifies the general requirements for test equipment and describes the test methods:

This document does not apply to the determination of the disintegration properties of plastic materials exposed to the pelagic zone (such as the sea surface or sea water):

This document is not suitable for the evaluation of disintegration due to heat and light:

This document applies to the determination of disintegration properties, not biodegradation properties: Therefore, it cannot be used to prove or disprove biodegradable properties (such as "biodegradable in the marine environment", etc.):

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

ISO 3310-2 Technical requirements and inspection of test sieves Part 2: Metal perforated plate test sieves (Testsieves-Technical
ISO 4591 Determination of average thickness of plastic film and sheet samples, average thickness of rolls and unit mass area (weighing method
ISO 4593 Mechanical measurement method for thickness determination of plastic films and sheets (Plastics-Filmandsheeting-Determination Note: GB/T 6672-2001
Mechanical measurement method for thickness determination of plastic films and sheets (ISO 4593:1993, IDT)
ISO 5667-3 Water quality sampling Part 3: Technical provisions for the preservation and management of samples (Waterquality-Sampling-Note: GB/T 12999-1991
Technical regulations for the preservation and management of water quality sampling samples (ISO 5667-3:1985, MOD) Note: GB/T 27025-2019
General requirements for testing and calibration laboratory capabilities (ISO/IEC 17025:2017, IDT)

3 Terms and definitions

The following terms and definitions apply to this document: