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

GB/T 44305.1-2024

**Plastics - Plasticized poly(vinyl chloride) (PVC-P) moulding and
extrusion materials - Part 1: Designation system and basis for
specifications**

塑料 增塑聚氯乙烯 (PVC-P) 模塑和挤塑材料 第1部分：命名系统及规范基础
(English Translation)

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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 is required.

This document is Part 1 of GB/T 44305 "Plastics - Plasticized polyvinyl chloride (PVC-P) molding and extrusion materials".

GB/T 44305 has published the following parts.

Part 1: Naming system and basis for specification;

Part 2: Preparation of test specimens and determination of properties. -this document is modified to adopt ISO 24023-1:2020 "Plastics Plasticized polyvinyl chloride (PVC-P) molding and extrusion materials Part 1 Part 1: Naming system and normative basis.

Compared with ISO 24023-1:2020, this document has the following structural adjustments.

Adjust 1.5 of ISO 24023-1:2020 to 4.1 of this document. -the technical differences between this document and ISO 24023-1:2020 and their reasons are as follows.

The normative reference GB/T 1844.1 replaces ISO 1043-1 (see 4.1 and 4.2), which meets the technical conditions of my country and is convenient for this Application of documents;

The normative reference GB/T 44305.2 replaces ISO 24023-2 (see 1.4, 4.5.2~4.5.4, 5.1, 5.2), which is in line with my country technical conditions to facilitate the application of this document.

Introduction

GB/T 44305 "Plastics plasticized polyvinyl chloride (PVC-P) molding and extrusion materials" aims to establish a general application of plasticized polyvinyl chloride the guidelines for the nomenclature, specification, specimen preparation and property determination of (PVC-P) molding and extrusion materials are intended to consist of two parts.

Part 1: Naming system and basis of specification. The purpose is to establish the naming system of PVC-P thermoplastic materials and distinguish different types of PVC-P molding and extrusion materials.

Part 2: Preparation of test specimens and determination of properties. The purpose is to establish the test specimen preparation and specification for PVC-P molding and extrusion materials.

Rules for preparation, specimen condition adjustment and test conditions.

Plastics Plasticized Polyvinyl Chloride (PVC-P) Molding and extrusion materials Part 1:
Naming system and basis for specification

1 Scope

1.1

This document establishes a system of nomenclature for plasticized polyvinyl chloride (PVC-P) thermoplastic materials that can serve as the basis for specifications.

1.2

The types of PVC-P plastics are distinguished according to the classification system. The classification system is established based on the level of named properties and the form of related substances.

information on state, intended use and/or processing, important properties, additives and colorants.

Named features include.

Shore hardness; a)

Density; b)

Temperature at torsional stiffness 300 MPa. c)

1.3

This document applies to plasticized compounds of vinyl chloride homopolymers and copolymers (containing at least 50% by mass of vinyl chloride);

Plasticized compounds of chlorinated polyvinyl chloride; plasticized compounds suitable for blends containing one or more of the above polymers, but these polymers the mass fraction of the total amount of polymer in the plasticized compound is at least 50%.

This document applies to materials in the following forms that can be used normally. powder (dry powder), granules or pellets, whether or not they have been coloured, Modification by additives, fillers, etc.

This document does not apply to foamed plastics or paste-like compounds (plastisols).

1.4

Materials named in this document may not necessarily have the same properties even if they are named the same. This document does not provide information on materials for a particular purpose.

engineering data, performance data or processing condition data required for specific applications and/or special processing methods.

If other properties are required, the test methods for determining other properties are given in GB/T 44305.2.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies.

in this document.

GB/T 1844.1 Plastics symbols and abbreviations Part 1: Basic polymers and their characteristic properties (GB/T 1844.1-2022, ISO 1043-1:2011, MOD) GB/T 44305.2 Plastics Plasticized polyvinyl chloride (PVC-P) molding and extrusion materials Part 2: Sample preparation and property test Standard (GB/T 44305.2-2024, ISO 24023-2:2020, MOD)

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4.1 General

The naming and specification system for thermoplastics is based on the following standardized model.