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Plastics-Limits for restricted substances of recycled plastics

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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.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Plastics Standardization (SAC/TC 15).

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Introduction

Plastics are widely used in various fields of the national economy due to their excellent properties such as low density, easy processing, high performance and multi-function.

It not only provides necessary materials for all walks of life, but also is an important part of many basic industries.

Plastic waste is constantly generated. Recycling it through physical or chemical methods is becoming increasingly important, which can not only reduce the It can also transform waste into valuable resources and realize resource recycling.

The restricted substances contained in plastic waste hinder its reuse, so regulating the restricted substances and their limits is beneficial to plastic waste.

The healthy development of the circular economy in the material field.

In order to prevent the restricted substances contained in plastic waste from causing harm to the environment, it is necessary to take into account the current production and operation status of enterprises, the regulatory agencies and the This document aims to provide a standard for the processing and utilization of recycled plastics.

The purpose is to provide a technical basis for limiting the amount of restricted substances and improve the standard system for recycling plastic waste. Therefore, the following

principles were determined when this document was formulated.

The following are the principles. first, to increase the recycling rate of plastic waste as much as possible; second, to encourage the homogenization and high value-added utilization of plastic waste; third, Implement national laws, regulations and policies, coordinate social and economic development, ensure that while economic development is sustainable, the quality of the ecological environment is continuously improved, and the country The safety of the domestic environment is effectively maintained. Based on the above principles and drawing on international practices, the use of restricted substances should be restricted according to the time limit, harmful substances should be restricted according to the time limit, and harmful substances should be restricted according to the time limit.

This document sets three categories of restricted substances in recycled plastics with different regulatory requirements, based on the degree of quality hazard and the degree of association with recycled plastics.

and their limits, namely, restricted substances and their limits for control, restricted substances and their limits for declaration, and restricted substances and their limits for warning.

The document provides a hierarchical management model including inspection and control, declaration acceptance, and early warning guidance. Among them, the setting of controlled restricted substances and their limits is intended to Relevant departments shall prevent the harmful restricted substances in recycled plastics from harming the environment and human life through inspection and control, and implement the national plastic pollution prevention and control system.

measures in accordance with relevant regulations; the setting of declaration-type restricted substances and their limits follows international practice, while strengthening the role of enterprises as the first responsible person and A management tool to achieve improved efficiency. When manufacturers or importers fail to provide corresponding declarations, regulatory authorities can upgrade and change the regulatory model;

The setting of restricted substances and their limits in the warning category is intended to provide information on the application of recycled plastics in various fields and prevent recycled plastics from being made into products.

It was only later discovered that the restricted substances exceeded the standards, causing new pollution and waste.

Plastic Recycled Plastic Restricted Substance Limit Requirements

1 Scope

This document specifies the classification and requirements of restricted substances in recycled plastic materials, and provides the inspection methods and inspection rules.

This document applies to the production, circulation, trade, certification and supervision of recycled plastics.

This document does not apply to plastics from medical waste, hazardous waste such as pesticide packaging, and radioactive waste.

2 Normative references

GB/T 2035

GB/T 2547

GB/T 20384-2024

GB/T 23263

GB/T 30102

GB/T 31126-2014

GB/T 32887

GB/T 37638

GB/T 37639

GB/T 37760

GB/T 38287

GB/T 38290

GB/T 38291

GB/T 38292

GB/T 38295

GB/T 40006.1

GB/T 40031

GB/T 40917-2021

3 Terms and definitions

The terms and definitions defined in GB/T 2035, GB/T 30102, GB/T 38295 and GB/T 40006.1 and the following terms and definitions apply to this document.