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

GB/T 11175-2021

Replacing GB/T 11175-2002

Testing methods for synthetic resin emulsions

合成树脂乳液试验方法

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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" Drafting. This document replaces GB/T 11175-2002 "Synthetic resin emulsion test method", compared with GB/T 11175-2002, except for structural adjustment. In addition to the overall and editorial changes, the main technical changes are as follows:

- a) Added Chapter 3 (see Chapter 3);
- b) Modified the description of Chapter 5 (see Chapter 5, Chapter 4 of the 2002 edition);
- c) Modified the description of the non-volatile matter determination method (see 6.2, 5.2 of the 2002 edition);
- d) Modified the description of the pH measurement method (see 6.3, 5.3 of the 2002 edition);
- e) Modified the description of the viscosity determination method (see 6.4, 5.4 of the 2002 edition);
- f) Modified the freeze-thaw stability determination method (see 6.5, 5.5 of the 2002 edition);
- g) Modified the description of the mechanical stability determination method (see 6.8, 5.8 in the 2002 edition);

1 Scope

GB/T 11175-2021 is the Chinese national standard on testing methods for synthetic resin emulsions, in the field of rubber and plastic industries. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a

contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 20 August 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2022. Classification: ICS 83.180, CCS G38. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the test items, test general rules and test methods for synthetic resin emulsions. This document is applicable to synthetic resin emulsions such as polyvinyl acetate emulsion, polyacrylate emulsion and vinyl acetate-ethylene copolymer emulsion.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 2793 Determination of non-volatile content of adhesives

GB/T 2794 Determination of Viscosity of Adhesives Single-cylinder Rotational Viscometer Method

GB/T 2918 Standard environment for condition adjustment and testing of plastic samples

GB/T 2943 Adhesive Terminology

GB/T 6678 General Rules for Sampling of Chemical Products

GB/T 6680 General Rules for Sampling of Liquid Chemical Products

GB/T 8170 Numerical rounding rules and the expression and determination of limit values

GB/T 9267 Determination of white point temperature and minimum film-forming temperature of polymer dispersions for coatings and coatings and plastics

GB/T 14518 Adhesive pH value determination

GB/T 20623-2006 Emulsion for architectural coatings

3 Terms and definitions

The following terms and definitions defined in GB/T 2943 apply to this document.

3.1 Synthetic resin emulsion A dispersion of various monomers through emulsion polymerization.

3.2 Productionbatch Products manufactured at the same time or manufactured under the same conditions, and mixed at the same place, can be considered as having the same quality. A collection of products.

4 Test items

Synthetic resin emulsion test items include the following.

c) Non-volatile matter;