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

GB/T 2895-2008

Replacing GB/T 2895-1982

**Plastics -- Polyester resin -- Determination of partial acid value
and total acid value**

塑料 聚酯树脂 部分酸值和总酸值的测定

(English Translation)

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Foreword

This revised standard adopts ISO 2114:2000 "Plastics (polyester resin), paints and varnishes (adhesives) --- partial acid value and total acid value Determination "(in English).

Taking into account China's national conditions, the use of this standard in the ISO 2114:2000 doing some modifications. About the technical differences have been incorporated into the body and they are involved in the provision of margin identified by a single vertical line. Given these technical differences and their causes in Appendix C the list for reference.

For ease of use, this standard made the following editorial changes.

- a) the name changed to "plastic polyester resin partial acid value and total acid value";
- b) Delete the ISO 2114:2000 "Directory" and "Introduction";
- c) Chapter 2, "Normative references" in where there is a corresponding ISO standard national standards, replaced by the national standards;
- d) instead of as a decimal by decimal comma ",", ".", " ";
- e) Remove the ISO 2114:2000 standard Chapter 9 precision in part, an increase in Appendix B.

This standard replaces GB/T 2895-1982 "unsaturated polyester resin acid value." the difference between standard 2895-1982 and GB/T as follows.

--- Standard name changed to "plastic polyester resin partial acid value and total acid value";

--- Increasing the normative references;

--- Increase the term and definition, a clear definition of partial acid value and total acid value;

--- Increased Method B. total acid test principle and test methods of operation;

--- Increased by potentiometric titration;

--- Increasing the quality of the sample table sampling.

This standard Annex A, Annex B and Annex C is informative appendix.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standards Technical Committee plastic universal methods and products Club (SAC/TC15/SC4) centralized.

1 Scope

Partial acid (Method A) This standard applies to the polyester resin and the total acid number (Method B) was measured.

This standard does not apply to phenolic resin.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the most recent version applies to this standard.

GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD) GB/T 6740-1986 paints volatiles and non-volatiles determination (eqv ISO 3251. 1974) GB/T 7193.3-1987 Determination of unsaturated polyester resin solids GB/T 12805-1991 laboratory glassware burette (eqv ISO 385. 1984)

3 Terms and Definitions

The following terms and definitions apply to this standard.

The resin and the desired sample 1g of potassium hydroxide (KOH) in milligrams (mg) in a number of test conditions.

And all the resin terminal carboxyl group, and half of the free acid anhydride of the free acid value.

And all the resin terminal carboxyl group, and all the free acid anhydride of the free acid value.

Principle 4

4.1 Overview

Potentiometric method or in the case of a color indicator, the free acid titrated with potassium hydroxide solution contained in a sample/anhydride.

4.2 Method A

First weighed resin is dissolved in a solvent mixture, then the solution by potentiometric method (see Note 1) with a standard solution of potassium hydroxide in ethanol Was titrated. The reaction is as follows.

