

ICS 83.080.01

CCS G 31



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

GB/T 24148.1-2009

**Plastics -- Unsaturated-polyester resins (UP-R) -- Part 1:
Designation system**

塑料 不饱和聚酯树脂 (UP-R) 第1部分: 命名系统
(English Translation)

Issued on: June 15, 2009

Implemented on: February 1, 2010

Issued by: Standardization Administration of China

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Foreword

GB/T 24148 "plastic unsaturated polyester resins (UP-R)" is divided into the following nine sections.

- Part 1. Designation system;
- Part 2. Sample preparation and performance measurement;
- Part 3. Technical requirements;
- Part 4. Determination of viscosity;
- Part 5. Determination of solid content;
- Part 6. 130 °C reactivity was measured;
- Part 7. Determination of gel time at ambient temperature;
- Part 8. platinum-cobalt colorimetry color;
- Part 9. Total volume shrinkage rate determination.

This section GB/T 24148 Part 1, identical with ISO 3672-1:2000 "Plastics - Unsaturated polyester resins (UP-R) - Part 1. naming "(in English), for ease of use, this section made the following editorial changes.

- The "this International Standard" by "this section", the "ISO 3672 of this part" to "this Part";
- Remove the ISO 3672-1:2000 Foreword;
- Increase the national standard foreword;
- The "Normative References" section listed with the corresponding international standard in place of national standards;

--- Use of decimal symbol instead of the international standard decimal symbol ",". " " ;

--- According to our country, delete the contents of 1.5.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee of plastic products and plastic resins General Method club (SAC/TC15/SC4) centralized.

This section is responsible for drafting unit. Tianjin All material Resin Co., Ltd., Changzhou Tianma Group Co., Ltd., the National Quality Supervision and Inspection synthetic resin Test center.

Participated in the drafting of this section. Guangdong Panyu Futian Chemical Co., Ltd., East China University of Technology Huachang Polymer Co., Ltd., Jiangsu Asia Nippon Paint Co., Ltd., Jiangsu Fu Ling Chemical Co., Ltd. Zhejiang days and resin.

1 Scope

1.1

GB/T 24148 This part of the establishment of a group with a character named unsaturated polyester resins (UP-R) system.

1.2

In accordance with the parameters of the base polymer, filler/reinforcing material (type and content), a predetermined processing method, and the required performance for naming Classification of performance characteristics to distinguish different types of UP-R.

1.3

section applies to generic liquid and solid unsaturated polyester resin.

1.4

Naming of the same material do not necessarily have the same performance. This section does not provide specific materials specific application and/or processing methods may be required Data engineering data, performance data or processing conditions. If such additional properties, it should be in accordance with the provisions of Part 2 of this section Standard Test Method for Determination of these properties.

2 Normative references

The following documents contain provisions which, through reference GB/T 24148 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest

versions apply to this section.

GB/T 1844.1-2008 Plastics - Symbols and abbreviated terms - Part 1. Basic polymers and their special characteristics (ISO 1043-1.

2001, IDT)

GB/T 1844.2-2008 Plastics - Symbols and abbreviations - Part 2. Fillers and reinforcing materials (ISO 1043-2:2000, IDT) GB/T 2035-2008 Plastics terms and their definitions (ISO 472:1999, IDT) GB/T 24148.2-2009 plastic unsaturated polyester resins (UP-R) - Part 2. Preparation of test specimens and determination (ISO 3672-2:2000, IDT) GB/T 24148.6-2009 plastic unsaturated polyester resins (UP-R) - Part 6. 130 °C reactivity assay (ISO 14848:1998, IDT) ISO 2535:2001 Plastics Unsaturated polyester resin gel time measured at room temperature ISO 3219:1993 Plastic liquid state or as emulsions or suspensions dispersions of polymer/resin using a rotary defined shear rate Viscometer viscosity

3 Terms and definitions, abbreviations

GB/T 2035-2008 and GB/T 24148.2-2009 established in the following terms and definitions and abbreviations apply to this section.

UP-R

Abbreviation Unsaturated polyester resin.

4.1 General

This section according to the following standard mode, set up naming system.

GB/T 24148.1-2009/ISO 3672-1:2000