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

GB/T 24148.2-2009

**Plastics -- Unsaturated-polyester resins (UP-R) -- Part 2:
Preparation of test specimens and determination of properties**

塑料 不饱和聚酯树脂 (UP-R) 第2部分: 试样制备和性能测定

(English Translation)

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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 2, identical with ISO 3672-2:2000 "Plastics - Unsaturated polyester resins (UP-R) Part 2. Preparation of test specimens and determination "(in English), for ease of use, this section made the following editorial changes.

- The "this International Standard" by "this standard", the "ISO 3672 of this part" to "this Part";
- Remove the ISO 3672-2:2000 Introduction;
- Remove the ISO 3672-2:2000 Foreword;
- Increase the national standard foreword;
- The corresponding part of the international standards with our national standard "Normative References" section listed substitute;
- Use of decimal notation. "" Instead of the international standard decimal symbol "." 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.

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1 Scope

This section GB/T 24148 specifies the test methods for preparing unsaturated polyester resin and measuring properties of the sample used. It provides Test material processing requirements and the status of the pre-molded test specimens and the test material before the adjustment.

Performance crosslinked unsaturated polyester resin, available from ISO 10350-1:1998 Common test selection method. This section also includes Test methods for unsaturated polyester resins are widely used test methods or other special significance (for the non-crosslinked resin molded special performance).

Test methods in order to obtain reproducible and comparable test results, must be specified in this standard, sample preparation, conditioning process Procedures and sample size.

For unsaturated polyester resin as base material products, existing relevant performance measurement criteria and other sample preparation, it can be used as a reference.

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.

1033.1-2008 non-plastic foam density measurement GB/T Part 1. Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2004, IDT) GB/T 1034-2008 Plastics Determination of water absorption (ISO 62:2008, IDT) GB /1040.1-2006 Plastics Determination of tensile properties T Part 1. General (ISO 527-1:1993, IDT) GB /1040.2-2006 Plastics Determination of tensile properties T Part 2. Test plastics molding and extrusion conditions (ISO 527-2:1993, IDT) GB/T 1041-2008 Plastics Determination of compression properties (ISO 604:2002, IDT) GB /1043.1-2008 plastic Charpy impact

properties measured T Part 1. Non-instrumented impact test (ISO 179-1.

2000, IDT)

GB/T 1408.1-2006 electrical insulating materials strength test method Tests at power frequencies (IEC 60243-1:1998, IDT) GB/T 1410-2006 solid insulating material volume resistivity and surface resistivity test methods (IEC 60093. 1980, IDT) GB/T 1634.2-2004 Determination of plastic deflection temperature under load - Part 2. Plastics, ebonite and long-fiber-reinforced composite materials Material (ISO 75-2:1993, IDT) GB/T 2406.2-2009 Plastics - Determination of burning behavior by oxygen index Part 2 Method. room temperature test (ISO 4589-2:1996, IDT) GB/T 2408-2008 Plastics - Determination of burning behavior of horizontal and vertical (IEC 60695-11-10:1999, IDT) GB/T 2918-1998 standard plastic sample conditioning and environmental tests (idtISO 291.1997) GB/T 4207-2003 solid insulating materials under moist conditions index tracking of the measuring method and the proof tracking index compared (IEC 60112. 1979, IDT) GB/T 5169.17-2008 Fire hazard testing for electric and electronic products - Part 17. 500 W flame test methods GB/T 24148.2-2009/ISO 3672-2:2000