

ICS 83.120
CCS Q 23



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

GB/T 27797.1-2011

**Fibre-reinforced plastics -- Methods of producing test plates --
Part 1: General conditions**

纤维增强塑料 试验板制备方法 第1部分：通则
(English Translation)

Issued on: December 30, 2011

Implemented on: August 1, 2012

Issued by: Standardization Administration of China

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Foreword

GB/T 27797 "fiber reinforced plastics test plates Preparation" is divided into 11 parts.

- Part 1. General;
- Part 2. the contact and injection molding;
- Part 3. wet molding;
- Part 4. prepreg molding;
- Part 5. Filament winding;
- Part 6. Pultrusion molding;
- Part 7. resin transfer molding;
- Part --- Article 8. SMC and BMC molding;
- Part --- Article 9. GMT/STC molding;
- Part 10. BMC and other long-fiber molding plastic injection molding and general principles common specimen molding;
- Part 11. BMC and other long-fiber molding plastic injection molding small square pieces.

This section GB/T Part of 127,797.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 1268-1:2001 (E) "fiber reinforced plastics test plates preparation methods - Part 1.

General. "

Consistency correspondence between this part of international documents and normative references of our files are as follows.

- GB/T 1033 (all parts), non-plastic foam density measurement [ISO 1183 (all parts)];

- GB/T 2035-2008 Plastics terms and definitions (ISO 472:1999, IDT);
- Plastic resin content test method GB/T 2577-2005 glass fiber reinforced (ISO 1172:1996, MOD).

This part made the following editorial changes.

- Some of the statements apply to international standards to apply to our standard formulation;
- Article No. 11.2 in Canada.

This part is proposed by the China Building Materials Federation.

The fiber-reinforced plastic part by the National Standardization Technical Committee (SAC/TC39) centralized.

This section is drafted. Beijing glass Composite Material Co., Ltd., Changzhou Tianma Group Co., Ltd., China North Industries Group fifty-three graduate School.

1 Scope

GB/T 27797 specifies the part of each composite fiber properties of the sample processing method for preparing reinforced plastic plate, in order to determine the Content and various components, these methods are applicable to all major reinforcements and resin matrix.

Methods of producing test plates depends on.

a) Reinforcements.

- Composition (glass, carbon, aramid, etc.);
- Form (rovings, mats, fabrics, etc.);
- With respect to the length of the plate, the width, the thickness of the terms (fiber) direction;
- Content in reinforced plastic.

b) the matrix (thermoplastic or thermoset);

c) the expected performance;

d) Preparation.

Enhanced mechanical properties and production process is closely related to the plastic, the test plate prepared in the same process should be possible.

This section GB/T 27797 describes the preparation of a variety of common requirements.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 472 Plastics term (Plastics-Vocabulary) ISO 1172 Textile glass fiber reinforced plastic prepreg, molding compounds and laminates glass fibers and inorganic mineral filler content Burning Determination Act (Textile-glass-reinforcedplastics-Prepregs, mouldingcompoundsandlaminates-De-terminationofthetextile-glassandmineralfillercontent-Calcinationmethods) Determination of ISO 1183 (all parts), non-plastic foam density (Plastics-Methodsfordetermining thedensityofnon-celularplastics) Reinforced plastics - Determination of void content ISO 7822 Textile glass - Loss on ignition, mechanical fragmentation and statistical calculation method (Textile glassreinforcedplastics-Determinationofvoidcontent-Lossonignition, mechanicaldisintegration andstatisticalcountingmethods) ISO 10724-2:1998 plastic injection molded test specimens of thermosetting powder molding compounds (PMCS) - Part 2. Small square pieces (Plastics-In-jectionmouldingoftestspecimensofthermosettingpowermouldingcompounds (PMCs) -Part 2.

Small plates)

3 Terms and Definitions

ISO 472 terms and definitions apply to this document as defined in GB/T 27797 subsequent contents, as required the insertion of terms and references.