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

GB/T 27797.8-2011

**Fibre-reinforced plastics -- Methods of producing test plates --
Part 8: Compression moulding of SMC and BMC**

纤维增强塑料 试验板制备方法 第8部分：SMC及BMC模塑

(English Translation)

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Health and Safety
- 5 Test board size

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 827,797.

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

This section uses the translation method identical with ISO 1268-8:2004 (E) "fiber reinforced plastics test plates preparation methods - Part 8.

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

- GB/T 2035-2008 Plastics terms and definitions (ISO 472:1999, IDT).

This part made the following editorial changes.

--- Some of the statements apply to international standards to apply to our standard formulation;

--- In Chapter 5, Article number 8.1.1,8.2 added.

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

This section GB/T 27797 specifies the reinforced thermosetting molding compounds with two fibers that sheet molding compound (SMC) and bulk molding compound (BMC), the preparation of molded test plates of general principles and procedures.

GB/T 27797 purpose of this section is to ensure the production of flat plate test cut test specimen (see relevant test method Appendix A). From the test plate prepared by the method of cut the sample, the test results are representative.

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 8604 Plastics prepregs Definition and naming symbols (Plastics-Prepregs-Definitionsoftermsand symbolsfordesignations) ISO 12115:1997 fiber-reinforced plastic materials and molded thermoset prepreg flowability, maturation and shelf life of determination (Fibre-reinforcedplastics-Thermosetting mouldingcompoundsandprepregs-Determinationof flowability, maturationandshelflife) EN1842 plastic thermosetting molding (SMC-BMC) molding plastic shrink Determination [Plastics-Thermoset mouldingcompounds (SMC-BMS) -Determinationofcompressionmouldingshrinkage]

3 Terms and Definitions

Terms and definitions ISO 472 and ISO 8604 as defined in the following terms and definitions apply to this document.

Dwell time compressiontime Mold maintained at a predetermined pressure of time.

4 Health and Safety

This section is limited to the preparation method described in the test plate. Conditions of Use material shall comply with national regulations, employees must clear the danger, and to take appropriate protective measures.

5 Test board size

Recommended 5.1 die plate size of 200mm x 590mm (ISO 12115:1997 method II desired size). If no suitable Mold, you can use a minimum area of 300cm² die, only in accordance with the method A was prepared mold size should ensure that the test panels can be cut out at least five samples of 20mm x 250mm.