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

GB/T 27797.9-2011

**Fibre-reinforced plastics -- Methods of producing test plates --
Part 9: Moulding of GMT/STC**

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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 927,797.

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

This section uses the translation method identical with ISO 1268-9.2003 (E) "fiber reinforced plastics test plates preparation methods - Part 9.

GMT/STC molding. "

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

--- GB /1040.4-2006 Plastics Determination of tensile properties - Part 4 T. isotropic and orthotropic fiber-reinforced

Strong Composites Test conditions (ISO 527-4.1997, IDT);

--- Plastic resin content test methods (ISO 1172.1996, MOD) GB/T 2577-2005 glass fiber reinforced;

--- GB/T 27797.1 fiber reinforced plastic plate test preparation methods - Part 1. General (ISO 1268-1.2001, IDT);

--- GB/T 27797.4 fiber reinforced plastics test plates Preparation - Part 4. prepreg molding (ISO 1268-4.

2005, IDT).

This part made the following editorial changes.

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

--- In Chapter 6, Article No. 10.2, 10.3 and 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., China North Industries Group fifty-three Institute, Changzhou Tianma Group has

Limited.

1 Scope

This section GB/T 27797 specifies the method reinforced thermoplastic sheet (GMT/STC) molding prepared test panels. Prepared

Test panels for measuring a sample processing laminates mechanical and physical properties. This method is applicable to thermoplastic resin matrix, glass fiber,

Carbon fiber, aramid fiber or other reinforcing material (reinforcing materials may be used alone or in combination, the form should be suitable for molding) by molding

Molded laminates.

GB/T 27797 and this part of GB/T 27797.1 used together.

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.

Determination of ISO 527-4 Tensile Properties of Plastics Part 4. isotropic and anisotropic fiber reinforced plastic composite material testing

Condition (Plastics-Determination of tensile properties-Part 4. Test conditions for isotropic and orthotropic fibre-reinforced plastic composites)

ISO 1172 Textile glass fiber reinforced plastic prepreg, molding compounds and laminates glass fibers and inorganic mineral filler content

Burning Determination Act (Textile-glass-reinforced plastics-Prepregs, moulding compounds and laminates-De-

termination of the textile-glass and mineral filler content-Calcination methods)

ISO 1268-1 fiber reinforced plastics test plates preparation methods - Part 1. General (Fibre-reinforced plastics-

Methods of producing test plates-Part 1. General conditions)

ISO 1268-4 fiber reinforced plastics test plates Preparation - Part 4. prepreg molding (Fibre-reinforced

plastics-Methods of producing test plates-Part 4. Moulding of prepregs)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

GMT

Industrial universal glass mat reinforced thermoplastic sheet Abbreviation where thermoplastics usually refers to polypropylene.

3.2

STC

Any kind of thermoplastic composite material sheet reinforced Abbreviation, regardless of the type or polymer reinforcing material form.

4 Health and Safety

See ISO 1268-1.

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