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

GB/T 14208.4-2009

**Textile-glass-reinforced plastics -- Determination of mechanical
properties on rods made of roving-reinforced resin -- Part 4:
Determination of apparent interlaminar shear strength
(English Translation)**

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Equipment
- 3.1 Bending test machine
- 3.2 Micrometer or caliper

Foreword

GB/T 14208 "glass fiber reinforced plastic roving - reinforced resin rod measuring mechanical properties" is divided into four parts.

- Part 1. General considerations and preparation of rods;
- Part 2. Determination of flexural strength;
- Part 3. Determination of compression strength;
- Part 4. apparent interlaminar shear strength was measured.

This section GB/T 14208 Part of this part identical with ISO 3597-4:2003 "woven glass fiber reinforced plastic Roving - reinforced resin material measuring rod mechanical properties - Part 4. apparent interlaminar shear strength measured "(in English).

This section is equivalent translation ISO 3597-4:2003, identical in technical content.

For ease of use, this section made the following editorial changes.

- a) to the "international standards" to the "standard" to "this part of ISO 3597" with the words "GB/T 14208 this part" or "the section";
- b) Remove the preface international standards;
- c) increase the national standard foreword;
- d) the "Normative references" international standards with the corresponding equivalent international standards in place of national standards listed chapter.

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 responsible for drafting unit. Beijing glass Composite Material Co., Ltd.

1 Scope

GB/T 14208 in this part of the provisions of the circular cross-section made of roving-reinforced resin rod (hereinafter referred to as stick) apparent interlaminar shear strength Determination. Stick to the original sample (untreated) or handle bars for some time in boiling water (or other medium).

This section applies to the inspection and quality control of glass fiber rovings, assess matching glass fiber rovings and resin system.

The test results can not be used as design data.

2 Normative references

The following documents contain provisions which, through reference GB/T 14208 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 14208.1 Textile glass fiber reinforced plastic roving - reinforced resin rod measuring mechanical properties - Part 1. General Bar preparation (2003, IDT GB/T 14208.1-2009, ISO 3597-1) and ISO 14125. Determination of plastic composite materials --- bending performance fiber reinforced

3.1 Bending test machine

Tester shall comply with the requirements of ISO 14125, load and indenter holder shall comply with the following requirements.

a) load bearing indenter and intermediate reduced diameter steel rod to ensure a reasonable distribution of stress; the radius of curvature R necking at the trial should be greater than Like radius, and the difference between the two is not greater than 0.25mm. Diameter loading indenter and sample holder shown in Figure 1 of 6mm used.

b) the span between the two seats for the sample five times the diameter.

Millimeters

Note: samples of different diameters, require the use of different size and indenter load bearing.

1 m1 m1 diameter of 6 samples used in load bearing and pressure head

3.2 Micrometer or caliper

Precision of 0.1mm.

GB/T 14208.4-2009/ISO 3597-4:2003