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

GB/T 6006.1-2013

Replacing GB/T 6006.1-2001

**Test method for glass mats -- Part 1: Determination of styrene
solubility**

玻璃纤维毡试验方法 第1部分：苯乙烯溶解度的测定

(English Translation)

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Foreword

GB/T 6006 "Test method for glass mat" is divided into three parts.

- Part 1. Determination of the solubility of styrene;
- Part 2. Determination of breaking tensile strength;
- Part 3. Determination of thickness.

This section GB/T 6006 Part 1.

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

This Part replaces GB/T 6006.1-2001 "glass mat Test methods - Part 1. Determination of styrene solubility", and GB/T 6006.1-2001 compared to, in addition to editorial changes outside the main technical changes are as follows.

- Remove the "Definitions" chapter (see Chapter 3 of the 2001 edition);
- Increased emulsion styrene (see 5.2,6.2, Chapter 7);
- Sample probe position from the edge of the original 10mm to 30mm (see 6.1);
- Increased test equipment during the test requirements of the thermostat (see Chapter 7);
- Increase the test report the test temperature, test date, etc. (see Chapter 9).

This section uses the translation method identical with ISO 2558:2010 "Plastics reinforced with glass fiber chopped strand mat binder in styrene Determination of dissolution time" and made the following editorial changes.

- Modify the standard name.

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

- GB/T 2918-1998 plastic sample conditioning and testing of the standard environment (ISO 291:1997, IDT).

This part of the National Standardization Technical Committee fiberglass (SAC/TC245) centralized.

This section is responsible for drafting. Nanjing Fiberglass Research and Design Institute Limited, the national glass fiber product quality supervision and inspection center.

1 Scope

GB/T 6006 provisions of this part of the glass fiber chopped strand mat under a certain tensile load is immersed in styrene, debonding between the strands Determination of the time required.

This method is suitable for glass fiber reinforced plastics chopped strand mat.

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 291 environmental standard plastic sample conditioning and testing (Plastics-Standard atmospheres for conditioning and testing) Principle 3 Vertical sample suspended in pure styrene solution, applying a certain tensile load on the sample was attached to the lower end of the sample weight, the weight record Time required to fall a certain distance.

NOTE: Use a stable emulsion styrene (see 5.2) can better distinguish the high solubility of the binder mat, this method is only applicable in the binder is completely insoluble in water Case.

4 Instrument

4.1

template for cutline sample size of 125mm x 100mm metal plate.

4.2

Cutting tools, knives, scissors, disc knives.

4.3

beaker, 2000mL minimum capacity, the minimum depth of 195mm.

4.4

round screen, made of stainless steel material, can be loaded into the beaker (shown schematically in Figure 1) should ensure that the length of the strut between the lower clamp and screen Distance of 50mm. After this round sieve used in the test beaker is removed from the lower jig and falling raw silk.

4.5

a pair of clamps, made of stainless steel, the specimen can be clamped over the entire width. The total mass of the lower jig should be (100 ± 2) g and You should be able to maintain a balance. One pair suitable fixture is shown in Figure 2.

4.6

stopwatch, accurate to 1s.