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

GB/T 12010.6-2010

Replacing GB/T 12010.10-1989

**Plastics -- Poly (vinyl alcohol) (PVAL) materials -- Part 6:
Determination for particle size**

塑料 聚乙烯醇材料(PVAL) 第6部分: 粒度的测定
(English Translation)

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Foreword

GB/T 12010 "plastic material polyvinyl alcohol (PVAL)" is divided into eight sections.

- Part 1. Designation system and basis;
- Part 2. Performance measurement;
- Part 3. Specifications;
- Part --- Chapter 4. pH value measurement;
- Part 5. Determination of the average degree of polymerization;
- Part 6. Determination of particle size;
- Part 7. Determination of sodium hydroxide;
- Part 8. Determination of transparency.

This section GB/T Part of 612,010, and JISK6726:1994 (2003 Confirmation) "polyvinyl alcohol test method" (Japanese Version) The non-equivalent.

This Part replaces GB/T 12010.10-1989 "polyvinyl alcohol resin particle size measurement method." this section compared with the GB/T 12010.10-1989 main changes are as follows.

- Increasing the reference document (Chapter 2 of this edition);
- Canceled a number of test sieve aperture and specific requirements (1989 version 5.1, this version 5.1);
- Improve the accuracy of the balance (1989 version 5.4, this version 5.4);
- Specimen sample weight has been adjusted (1989 version 6.1, this version 6.1).

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee of plastic products and

plastic resins General Methods Chapter (SAC/TC15/SC4) centralized.

This section is responsible for drafting unit. Hunan Xiangwei Limited.

This section participated in the drafting unit. China Petrochemical Group of Sichuan Vinylon Works, Ltd. Yunnan Yun-dimensional, synthetic resin national quality supervision Governor Inspection Center.

1 Scope

GB/T 12010 provisions of this part of the determination of particle size polyvinyl material.

This section applies to the determination of degree of hydrolysis greater than 70% (mole fraction) of the polyvinyl alcohol material particle size and particle size distribution.

2 Normative references

The following documents contain provisions which, through reference GB/T 12010 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 6003.1-1997 Test sieves of metal wire cloth

3 Terms and Definitions

The following terms and definitions apply to this section.

Sieve stay was sieving remainder Stay on the sieve after sieving polyvinyl material.

Principle 4

The predetermined amount of the polyvinyl alcohol material was placed on a standard sieve, sieved through mechanical vibration, the quality measurement on the left each sieve sieve material fraction.

5 Instruments

5.1

standard sieve. Diameter 200mm, depth 45mm, in line with GB/T 6003.1-1997 Test sieves (sieves with sieve lid and chassis).

According to the actual needs of users, select the number of each standard sieve sieve apertures.

5.2

assist device. Clean sieve with a suitable brush, collecting samples of container.

5.3

vibration sieve machine. vibration number (200 to 300) beats/min, about 150 times the number of slap/min. Performance of other similar devices may be the same use.

5.4

Balance. accurate to 0.1g.

5.5

Stopwatch.

6 Steps

6.1

Weigh the sample 100g, accurate to 0.1g, is placed on the top sieve. The standard screen is firmly attached to the vibration sieve, vibration sieve start Machine, and start recording time, stop vibration 15min, removed together with the chassis together.

6.2

After the vibration, the screen was left on each sieve brush, weighed each standard sieve stay was quality, accurate to 0.1g.

7 The results are shown Size to remain in the i-layer standard sieve sieve material polyvinyl alcohol was left wi mass fraction of its value is expressed in%, according to equation (1).