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

GB/T 1233-2008

Replacing GB/T 1233-1992

**Rubber, unvulcanized -- Determinations of pre-vulcanization
characteristic using a shearing disc viscometer**

未硫化橡胶初期硫化特性的测定用圆盘剪切黏度计进行测定

(English Translation)

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Foreword

This revised standard adopts ISO 289-2:1994 "unvulcanized rubber shearing disc viscometer - Part 2. Initial vulcanization Determination of properties "(in English).

This standard replaces GB/T 1233-1992 "rubber compound early cure characteristics measured Mooney viscometer." this standard is based on ISO 289-2:1994 redrafted.

This standard and ISO 289-2:1994 The main difference, causes changes reg and is structured as follows.

--- "2 Normative references" in.

a) with GB/T 1232.1-2000 "unvulcanized rubber disc shear viscometer - Part 1. Mooney viscosity Determination of the degree of "instead of ISO 289-1:1994, its main technical difference is. GB/T 1232.1-2000 chapters in the instrument Section increases the rectangular pattern of the mold cavity; deleting the ISO 289-1 in chapter precision. the 1994 plan content and fine Density results.

b) with the GB/T 14838-1993 replaces ISO/T R9272. 1986, both in the basic concepts, calculation methods and application There is no difference in terms of technology.

China needs to adapt to the integrity of the test results.

--- Added scorch time and cure index using a large rotor and small rotor when the exposition (see Chapter 8), this provision has more Body, improve the operability.

Time (see Figure 1).

For ease of use, this standard did Edit following modifications.

- a) Remove the preface to international standards;
- b) "this International Standard" be replaced by "this standard";

c) use the decimal point. "" instead of a comma as the decimal point "." the main difference compared with the standard GB/T 1233-1992 as follows.

- Modify the standard name;
- Increasing the foreword;
- Increased in Chapter 2, normative references;
- Increased Chapter 3 Terms and definitions;
- Delete Chapter 7 test procedure;
- Deleted Chapter 8 8.2 "number of samples in less than two arithmetic mean value of the test results..";
- Deleted Chapter 8 8.4 "measurement values \u200b\u200bare accurate to 0.5min results take on integer values..";
- Increasing the precision of Chapter 9;
- Increase in the content of the test report (s edition Chapter 10).

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standards Commission rubber physical and chemical test methods Technical Committee (SAC/TC35/SC2) centralized.

This standard was drafted. Guizhou Tyre Co., Ltd.

1 Scope

This standard specifies the method for the initial uncured rubber vulcanization characteristics with shearing disc viscometer.

This standard applies to the evaluation of uncured rubber in high temperature conditions can save time and workability.

NOTE: None of the test methods are considered with all the different types of processes, such as kneading, calendering, extrusion, curing interconnected, thus indicating the test results Compound should be considered prior specific processes.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revised edition are not suitable for this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1232.1 - Part 1 uncured rubber measured by shearing disc viscometer. Mooney viscosity measurement (GB/T 1232.1-2000, neq ISO 289-1:1994) GB/T 14838 Rubber and rubber products - Determination of precision for test method standards (GB/T 14838-1993, neq ISO/T R 9272. 1986)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Mooney viscosity rises from the smallest to the minimum time required for a predetermined value, including warm-up time. When using a large rotor, a predetermined rise to five Mooney Mooney value or 35, up to three predetermined value or 18 Mooney Mooney value when using a small rotor. Corresponding to the initial curing time Principle 4 this standard is at a predetermined temperature mix Mooney viscosity change with time of the test, determined according to Mooney viscosity rises to a predetermined value when the time required. The temperature and the temperature used in processing, respectively.

5 Test Instruments

Apparatus complies with GB/T 1232.1, which allows the use of small rotor when testing high viscosity gum.

6 Sample preparation

Two round specimens prepared from the mix through thin material. The preparation process in line with the provisions of GB/T 1232.1 of.

7 Test temperature

Choice and mix material processing related to the test temperature.