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Chemical Industry Standard of the People's Republic of China

HG/T 3660-1999

Testing Methods for Melt Viscosity of Hot-melt Adhesives

热熔胶粘剂熔融粘度的测定

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Foreword

This standard is formulated by equivalently adopting Japanese Industrial Standard JIS K 6862-1984 *Testing Methods for Melt Viscosity of Hot-melt Adhesives*.

Compared with JIS K 6862, main differences of this standard are:

- The viscosity meter used in the method B of this standard is not the same model.

This standard was proposed by Technical Inspection Division of former Ministry of Chemical Industry, the People's Republic of China.

This standard shall be administered by the National Adhesive Standardization Technical Committee.

Drafting organization of this standard: Shanghai Institute of Rubber Products.

Main drafters of this standard: Lu Zhiyun, and Xin Renfen.

This standard shall be responsibly interpreted by National Adhesive Standardization Technical Committee.

Testing Methods for Melt Viscosity of Hot-melt Adhesives

1 Scope

This standard specifies the melt viscosity test for hot-melt adhesive at 180°C. It may also negotiate to use other test temperature according to needs.

According to different sample amount, this standard uses Brooke (Brookfield) type single cylinder rotary viscometer and sleeve rotary viscometer respectively to determine the melt viscosity of hot-melt adhesive.

The maximum melt viscosity measured by this standard is 200 Pa • s.

2 Normative references

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

GB/T 2918-98 Plastics - Standard atmospheres for conditioning and testing

3 Principle

The viscosity measured by rotational viscometer is the dynamic viscosity. The molten hot-melt adhesive is non-Newtonian fluid. The ratio of any shear rate AND corresponding shear stress is not constant.

The specific amount of hot-melt adhesive is heated under the given conditions. When the temperature of hot-melt adhesive reaches the test temperature, SELECT suitable viscometer's rotor and speed. START viscometer. RECORD the viscosity value.

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| 1) When sample amount is 200mL, it is not suitable to use rotor A-1. |
|--|

8 Test Report

The test report shall include the following content:

- a) Sample source, name, type, date of manufacture or batch number, date of test;
 - b) Temperature, humidity and time of sample state adjustment;
 - c) Test method (Method A, Method B);
 - d) Viscometer's model, rotor, rotation speed, and rotation time;
 - e) The test results (viscosity and test temperature);
 - f) Other content required to report.
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