

ICS 91.100.50
CCS Q 24



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

GB/T 13477.3-2017

Replacing GB/T 13477.3-2002

**Test method for building sealants -- Part 3: Determination of
extrudability of sealants using standardized apparatus
(English Translation)**

Issued on: May 31, 2017

Implemented on: April 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

GB/T 13477 "Test Method for Building Sealing Materials" is divided into 20 parts.

--- Part 1. The provisions of the test substrate;

--- Part 2. Determination of density;

---Part 3. Method for determining the extrudability of sealing materials using standard instruments;

--- Part 4. Determination of extrudability of single-package sealing materials in original packaging;

--- Part 5. Determination of dry time;

--- Part 6. Determination of fluidity;

- Part 7. Determination of low temperature flexibility;
- Part 8. Determination of tensile cohesiveness;
- Part 9. Determination of tensile adhesion after immersion;
- Part 10. Determination of the adhesion and adhesion;
- Part 11. Determination of the adhesion and adhesion after immersion;
- Part 12. Determination of cohesiveness after stretching-compression cycle at the same temperature;
- Part 13. Determination of cohesiveness after cold drawing - hot pressing;
- Part 14. Determination of cohesiveness after immersion and stretching-compression cycles;
- Part 15. Determination of cohesiveness after exposure to heat, glass-through artificial light source and water;
- Part 16. Determination of compression characteristics;
- Part 17. Determination of elastic recovery rate;
- Part 18. Determination of peel adhesion;
- Part 19. Determination of mass and volume changes;
- Part 20. Determination of pollution.

This part is the third part of GB/T 13477.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 13477.3-2002 "Test methods for building sealing materials - Part 3. Determination of sealing materials using standard the method of extrudability of materials, compared with GB/T 13477.3-2002, the main technical changes are as follows.

- Revised the scope of the statement (see Chapter 1, Chapter 1 of the 2002 edition);
- Revised the normative reference document (see Chapter 2, Chapter 2 of the 2002 edition);
- Revised the principle, increased the expression of extrudability reported by mass extrusion rate or volume extrusion rate (see Chapter 4, 2002 edition) Chapter 4);
- Removed standard test conditions (see Chapter 5 of the 2002 edition);
- Modified test equipment (see 5.1 and 5.3, 2002 editions 6.2, 6.3 and 6.4);
- Added general rules (see Chapter 6);
- Increased test preparation (see Chapter 7);

--- Modified the test procedure and deleted the A method using the measuring cylinder (see 8.1~8.3, 7.1~7.3 of the 2002 version);

--- Increased results representation (see Chapter 9);

--- Revised the test report, increased the extrusion rate by mass extrusion rate or volume extrusion rate, and deleted the report test method.

(A method or B method) and other contents [see Chapter 10, column a), c), f), g), h), i) and j), Chapter 8 of the 2002 edition, item b),

c), e), f) and g)].

This section uses the redrafting method to modify the use of ISO 8394-2:2010 "Building Structure Joint Products Part 2. Using Standards A method for determining the extrudability of a sealing material.

This section is structurally modified compared to ISO 8394-2:2010. This section is listed in Appendix A with ISO 8394-2:2010.

The chapter number is compared to the list.

There are technical differences in this section compared to ISO 8394-2:2010, and the terms involved in these differences have been passed in the outer blank position.

Vertical single lines (-) are identified, and a list of corresponding technical differences and their causes is given in Appendix B.

This section also made the following editorial changes.

--- The interpretation of the packaging form in Chapter 1 of ISO 8394-2:2010 is included in the note in Chapter 1 of this part;

--- Increase the unit of density in the description of 9.2 (2).

Technical errata in ISO 8394-2:2010 has been included in the provisions of this section, and the provisions relating to errata have been passed on the outside blank the vertical double line (||) is marked. The errata content is as follows.

--- The outline of the skateboard occluded in the left view of Figure 1 is indicated by a dashed line;

--- Replace the inner diameter of the extrusion cylinder in Figure 2a) with " $\phi 50H7$ " instead of " $\phi 50$ ";

--- Replace the size of the front view of the front cover in Figure 2d) with "20" instead of "8.04";

--- Replace the size of the cross-section of the orifice plate in Figure 2f) with " $\phi 3.4$ " instead of " $\phi 11$ ";

--- Replace the tolerance of 3H7 in the tolerance table shown in Figure 2 with "0.01" instead of "0.009", and the tolerance of 50H7 is replaced by "0.025" "-0.025".

This part was proposed by the China Building Materials Federation.

This part is under the jurisdiction of the National Technical Committee for Standardization of Lightweight and Decorative Building Materials (SAC/TC195).

This section drafted by. Henan Building Materials Research and Design Institute Co., Ltd., Guangzhou Baiyun Chemical Industry Co., Ltd., Zhengzhou Zhong Original Applied Technology Research and Development Co., Ltd., Chengdu Silicon Bao Technology Co., Ltd., Guangzhou Gaoshi Industrial Co., Ltd., Guangdong Xinzhan Chemical Co., Ltd.

New Materials Co., Ltd., Guangdong Pusaida Sealing Adhesive Co., Ltd., Jiangmen Daguangming Adhesive Co., Ltd.

1 Scope

This part of GB/T 13477 specifies methods for determining the extrudability and pot life of building sealing materials using standard equipment.

This section applies to the determination of the extrudability of sealing materials and the pot life of multi-component sealing materials.

Note: The measurement method specified in this section has nothing to do with the original packaging form of the sealing material to be tested.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 14682 Building sealing material terminology (GB/T 14682-2006, ISO 6927:1981, NEQ)

3 Terms and definitions

The terms and definitions defined in GB/T 14682 apply to this document.

4 Principle

Filling the sealing material to be tested with standard equipment, using compressed air to extrude the sealing material under specified conditions, weighing the extruded sealing material quality.