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

GB/T 47070-2026

**Thermal insulating products for building applications - Limit
value of decabromodiphenyl ether (decaBDE)**

建筑用绝热制品 十溴二苯醚 (decaBDE) 的限值

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Building Materials Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Thermal Insulation Materials (SAC/TC191). This document was drafted by: Nanjing Glass Fiber Research and Design Institute Co., Ltd., Huaibei Longze Mining Products Manufacturing Co., Ltd., and China Railway. 21st Bureau Group First Engineering Co., Ltd., Nanjing Sinoma Standard Certification Co., Ltd. The main drafters of this document are: Yu Congcong, Wang Chaoqun, Meng Hao, Li Jianjie, Fu Fengzhi, Xu Qi, Wang Manman, Wang Jiaqing, Lei Xiaoming, and Wei Tianqiao. Cui Jun. Building insulation products Limits for decabromodiphenyl ether (decaBDE)

1 Scope

GB/T 47070-2026 is the Chinese national standard covering decaBDE in building insulation - a brominated flame retardant listed under the Stockholm Convention, still present in recycled polymer streams, with the limit it may not exceed and the determination. First edition, with GB/T 47072-2026 on acrylic acid in the same products. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the limits for decabromodiphenyl ether (decaBDE) in building insulation products and describes the test methods. This document applies to organic thermal insulation products such as polyurethane foam and flexible foam rubber for building applications.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 4132 Thermal Insulation Terminology

GB/T 6682 Specifications and test methods for water used in analytical laboratories

3 Terms and Definitions

The terms and definitions defined in GB/T 4132 and the following terms and definitions apply to this document.

3.1 Brominated flame retardants with the molecular formula $C_{12}Br_{10}O$.

Note. See Figure 1 for the molecular structure diagram. Figure