



International Standard

ISO 4898

Rigid cellular plastics — Thermal insulation products for buildings — Specifications

*Plastiques alvéolaires rigides — Produits d'isolation thermique
pour bâtiments — Spécifications*

**Seventh edition
2025-10**

ISO Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 4898:2025

<https://standards.iteh.ai/catalog/standards/iso/7a864f27-e6d3-4e5e-862b-b7a320e978d5/iso-4898-2025>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 4898:2025

<https://standards.iteh.ai/catalog/standards/iso/7a864f27-e6d3-4e5e-862b-b7a320e978d5/iso-4898-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Sizes and dimensional tolerance requirements	3
5 Physical-property requirements	3
5.1 Categories	3
5.2 Subcategories	4
5.3 Limiting quality values	4
6 Sampling	4
7 Conditioning	4
7.1 Sample panels	4
7.2 Specimens	4
8 Test methods	4
8.1 Bending load at break	4
8.2 Burning characteristics	5
8.3 Compressive creep at elevated temperature	5
8.4 Compressive strength	5
8.5 Density	5
8.6 Dimensional stability	5
8.7 Formaldehyde emissions	5
8.8 Heat release rate and smoke production rate	6
8.9 Linear dimensions	6
8.10 Thermal conductivity	6
8.10.1 General	6
8.10.2 Initial thermal conductivity	6
8.10.3 Long term thermal resistance	6
8.11 Water absorption	6
8.12 Water vapour permeability	6
9 Conformity control	6
10 Labelling and marking of products	7
11 Reporting requirements	7
Annex A (normative) Amendments to ISO 12576-1	11
Bibliography	13

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 10, *Cellular plastics*.

This seventh edition cancels and replaces the sixth edition (ISO 4898:2018), which has been technically revised.

The main changes are as follows:

- the list of normative references (see [Clause 2](#)) has been updated;
- the test methods in [Clause 8](#) have been completely revised;
- requirements for density testing have been added;
- requirements for initial thermal conductivity have been added;
- requirements for burning characteristics have been added;
- requirements for fire retardancy have been added;
- requirements for formaldehyde emissions have been added;
- requirement for testing to ISO 16000-25 has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.