

INTERNATIONAL ISO
This is a preview of "ISO 17194:2007". Click here to purchase the full version from the ANSI store.

First edition
2007-03-15

Structural adhesives — A standard database of properties

Adhésifs structuraux — Base de données des caractéristiques



Reference number
ISO 17194:2007(E)

© ISO 2007

This is a preview of "ISO 17194:2007". [Click here to purchase the full version from the ANSI store.](#)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 17194:2007". [Click here to purchase the full version from the ANSI store.](#)

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Principle	2
4 Test specimens	2
5 Test conditions	2
6 Test procedures	2
6.1 Basic properties	2
6.2 Durability in different environments	4
6.3 A simple stress analysis	4
7 Precision	5
Bibliography	6

This is a preview of "ISO 17194:2007". [Click here to purchase the full version from the ANSI store.](#)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 17194 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This is a preview of "ISO 17194:2007". [Click here to purchase the full version from the ANSI store.](#)

Introduction

Over recent years, there has been an increase in the use of computer methods for the selection and evaluation of structural adhesives and for assistance with the manufacture and design of joints with these materials. The data sheets from materials suppliers generally do not supply all the property data that are needed to support the application of these methods.

This International Standard specifies a set of basic properties for adhesives commonly required for the use of these materials in a wide range of applications. Test methods and test conditions are recommended for the measurement of the data to enable traceability of presented values. For each property, a single (preferred) test method and specific test conditions are identified in order to improve the comparability of data on different materials generated by different data suppliers.

In selecting the contents for this database, attempts have been made to find a balance in the quantity of data specified. Too much and data suppliers will be reluctant to produce the data, too little and the database has limited value. The aim is therefore not to present a comprehensive list of properties for adhesives but to be selective in identifying the most important properties that are needed for the use of adhesives for different applications. It should be noted that many adhesives have been developed with special properties for a particular application. It is possible that these properties will not be specified in the list associated with this International Standard. However, scope has been included within this standard for the presentation of additional data under test conditions identified by the data supplier. In this way, the special properties of the adhesive can be presented with the basic data.