

# Plastics — Determination of ignition temperature using a hot-air furnace

ICS 13.220.40; 83.080.01

# National foreword

This British Standard was published by BSI. It is the UK implementation of ISO 871:2006. It supersedes BS ISO 871:1996 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/26, Burning behaviour of plastics and rubbers.

A list of organizations represented on PRI/26 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 December 2006

© BSI 2006

ISBN 0 580 49847 6

## Amendments issued since publication

| Amd. No. | Date | Comments |
|----------|------|----------|
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |

# INTERNATIONAL STANDARD

**ISO  
871**

Third edition  
2006-11-15

---

---

## Plastics — Determination of ignition temperature using a hot-air furnace

*Plastiques — Détermination de la température d'allumage au moyen  
d'un four à air chaud*



Reference number  
ISO 871:2006(E)

**AVA** Documents  
Document Sharing Hub



## Contents

Page

|                |                                                                       |          |
|----------------|-----------------------------------------------------------------------|----------|
| <b>1</b>       | <b>Scope .....</b>                                                    | <b>1</b> |
| <b>2</b>       | <b>Normative references .....</b>                                     | <b>1</b> |
| <b>3</b>       | <b>Terms and definitions .....</b>                                    | <b>1</b> |
| <b>4</b>       | <b>Principle .....</b>                                                | <b>2</b> |
| <b>5</b>       | <b>Apparatus .....</b>                                                | <b>2</b> |
| <b>6</b>       | <b>Location of thermocouples .....</b>                                | <b>3</b> |
| <b>7</b>       | <b>Test specimens .....</b>                                           | <b>3</b> |
| <b>8</b>       | <b>Procedure .....</b>                                                | <b>5</b> |
| <b>8.1</b>     | <b>Flash-ignition temperature (FIT) .....</b>                         | <b>5</b> |
| <b>8.2</b>     | <b>Spontaneous-ignition temperature (SIT) .....</b>                   | <b>6</b> |
| <b>9</b>       | <b>Precision .....</b>                                                | <b>6</b> |
| <b>10</b>      | <b>Test report .....</b>                                              | <b>6</b> |
| <b>Annex A</b> | <b>(informative) Results obtained by interlaboratory trials .....</b> | <b>7</b> |