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Plastics — Determination of burning behaviour by oxygen index —

Part 3: Elevated-temperature test

*Plastiques — Détermination du comportement au feu au moyen de
l'indice d'oxygène —*

Partie 3: Essai à haute température



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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.

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 4, *Burning behaviour*.

This second edition cancels and replaces the first edition (ISO 4589-3:1996), which has been technically revised.

A list of all parts in the ISO 4589 series can be found on the ISO website.

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Introduction

This document has been prepared to extend the methods available for the determination of flammability by oxygen index (OI) (see ISO 4589-2) to typical elevated temperatures to which a plastic material can be exposed in a service situation. It also provides a method for determining the temperature at which combustion of a small bar of material is just supported in air under certain test conditions; the resulting temperature is termed the flammability temperature.

This document is intended to be used in conjunction with ISO 4589-2 which describes the basic OI test method.

Results obtained in accordance with this document are not applicable to describe or appraise the fire hazard presented by a particular material or shape under actual fire conditions, unless used as one element of a fire risk assessment which takes into account all of the factors which are pertinent to the assessment of the fire hazard of a particular application for the material.