

# FINAL VERSION

## VERSION FINALE

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**Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes –  
Part 3-6: Specifications for individual materials – Requirements for rigid laminated sheets based on silicone resins**

**Matériaux isolants – Stratifiés industriels rigides en planches à base de résines thermodurcissables à usages électriques –  
Partie 3-6: Spécifications pour matériaux particuliers – Prescriptions pour stratifiés rigides en planches à base de résine silicone**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **INSULATING MATERIALS – INDUSTRIAL RIGID LAMINATED SHEETS BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –**

#### **Part 3-6: Specifications for individual materials – Requirements for rigid laminated sheets based on silicone resins**

#### FOREWORD

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**This Consolidated version of IEC 60893-3-6 bears the edition number 2.2. It consists of the second edition (2003-11) [documents 15C/1526/FDIS and 15C/1540/RVD], its amendment 1 (2009-09) [documents 15/492/CDV and 15/532/RVC] and its amendment 2 (2017-09) [documents 15/786/CDV and 15/802/RVC]. The technical content is identical to the base edition and its amendments.**

**This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.**

International standard IEC 60893-3-6 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

This second edition constitutes a technical revision.

In this revision of the IEC 60893 series of specifications, new material types have been included, changes have been made to the property requirements of some existing types, a new method for testing permittivity and dissipation factor has been added, and all non-specification data for each type has been moved to a new Part 4 document – IEC 60893-4: Typical values.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## INTRODUCTION

This part of IEC 60893 is one of a series, which deals with industrial rigid laminated sheets based on thermosetting resins for electrical purposes.

This series consists of four parts:

Part 1: Definitions, designations and general requirements. (IEC 60893-1)

Part 2: Methods of test (IEC 60893-2)

Part 3: Specifications for individual materials (IEC 60893-3)

Part 4: Typical values (IEC 60893-4)

IEC 60893-3-6 contains one of the specification sheets comprising Part 3, as follows:

Sheet 6: Requirements for rigid laminated sheets based on silicone resins

## INTRODUCTION to the Amendment 1

This amendment introduces revised limits for CHARPY and IZOD impact strengths for the requirements of all types of rigid laminated sheets based on silicone resins. These revised limits are based on the results of round-robin testing.

# INSULATING MATERIALS – INDUSTRIAL RIGID LAMINATED SHEETS BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –

## Part 3-6: Specifications for individual materials – Requirements for rigid laminated sheets based on silicone resins

### 1 Scope

This part of IEC 60893 gives the requirements for industrial rigid laminated sheets for electrical purposes based on silicone resins and different reinforcements.

Applications and distinguishing properties are given in Table 1.

Materials which conform to this specification meet established levels of performance. However, the selection of a material by a user for a specific application should be based on the actual requirements necessary for adequate performance in that application and not based on this specification alone.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60893-1, *Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 1: Definitions, designations and general requirements*<sup>1</sup>

IEC 60893-2:2003, *Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 2: Methods of test*

### 3 Designation

The sheets covered by this specification are classified into types, which differ in the reinforcement employed and in their distinguishing properties. The sheets are designated by

- the IEC standard number;
- a two-letter abbreviation, denoting the resin;
- a second two-letter abbreviation denoting the reinforcement;
- a serial number;
- nominal thickness x width x length in mm.

Example of designation: Industrial rigid laminated sheet of type SI GC 201 with a nominal thickness of 10 mm, 500 mm wide, 1 000 mm long.

Sheet IEC 60893-3-6 – SI GC 201 – 10 x 500 x 1 000

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<sup>1</sup> To be published.