

SLOVENSKI STANDARD
SIST EN IEC 60893-3-6:2004/A2:2018
01-april-2018

Izolacijski materiali - Industrijske toge laminirane plošče iz smol s toplotnim utrjevanjem za električne namene - 3-6. del: Specifikacije za posamezne materiale - Zahteve za toge laminirane plošče na osnovi silikonskih smol - Dopolnilo A2 (IEC 60893-3-6:2003/A2:2017)

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 (IEC 60893-3-6:2003/A2:2017)

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Isolierstoffe - Tafeln aus technischen Schichtpressstoffen auf der Basis warmhärtender Harze für elektrotechnische Zwecke - Teil 3-6: Bestimmungen für einzelne Werkstoffe - Anforderungen für Tafeln aus Schichtpressstoffen auf der Basis von Silikonharzen (IEC 60893-3-6:2003/A2:2017)

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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 (IEC 60893-3-6:2003/A2:2017)

Ta slovenski standard je istoveten z: EN IEC 60893-3-6:2004/A2:2018

ICS:

29.035.20 Plastični in gumeni izolacijski materiali Plastics and rubber insulating materials

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EUROPEAN STANDARD

EN IEC 60893-3-6:2004/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2018

ICS 29.035.01

English Version

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
(IEC 60893-3-6:2003/A2:2017)

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
(IEC 60893-3-6:2003/A2:2017)

Isolierstoffe - Tafeln aus technischen Schichtpresstoffen
auf der Basis wärmehärtender Harze für elektrotechnische
Zwecke - Teil 3-6: Bestimmungen für einzelne Werkstoffe -
Anforderungen für Tafeln aus Schichtpresstoffen auf der
Basis von Silikonharzen
(IEC 60893-3-6:2003/A2:2017)

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This amendment A2 modifies the European Standard EN 60893-3-6:2004; it was approved by CENELEC on 2017-10-20. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60893-3-6:2004/A2:2018**European foreword**

The text of document 15/786/CDV, future IEC 60893-3-6/A2, prepared by IEC/TC 15 "Insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60893-3-6:2004/A2:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-08-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-02-02

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

Endorsement notice

The text of the International Standard IEC 60893-3-6:2003/A2:2017 was approved by CENELEC as a European Standard without any modification.

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IEC 60893-3-6

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

**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**

<https://standards.iteh.ai/catalog/standards/sist/638caefb-b708-443b-9410-251f76617c2c/iec-60893-3-6:2004/a2:2018>

**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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FOREWORD

This amendment has been prepared by IEC technical committee 15: Solid electrical insulating materials.

The text of this amendment is based on the following documents:

CDV	Report on voting
15/786/CDV	15/802/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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.

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Table 5 – Property requirements

Replace the existing Table 5, as modified by Amendment 1, with the following:

Table 5 – Property requirements

Property	Test method in IEC 60893-2 Subclause	Unit	Minimum or Maximum	Nominal thickness of sheet to which test is applicable	Type		Remarks
					SI GC 201	SI GC 202	
Flexural strength		MPa	Minimum	≥1,5	90	120	
Charpy impact strength or Izod impact strength parallel to laminations	5.4.2 or 5.4.3	kJ/m ²	Minimum	≥5	35	35	Conformance with the requirements for either the Charpy or Izod test constitutes, in this respect, conformance with this specification.
Electric strength at 90 °C in oil perpendicular to laminations	6.1	kV/mm	Minimum	≤3	See Table 6		
Breakdown voltage at 90 °C in oil parallel to laminations	6.1	kV	Minimum	>3	30	25	
Permittivity at 48 Hz-62 Hz	6.2		Maximum	≤3	4,5	-	Conformance with the requirements for either test constitutes, in this respect, conformance with the specification.
Permittivity at 1 MHz	6.2		Maximum	≤3	4,5	-	
Dissipation factor at 48 Hz-62 Hz	6.2		Maximum	≤3	0,02	-	Conformance with the requirements for either test constitutes, in this respect, conformance with the specification.
Dissipation factor at 1 MHz	6.2		Maximum	≤3	0,02	-	
Insulation resistance after immersion in water	6.3	MΩ	Minimum	All	1 × 10 ⁴	1 × 10 ³	

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IEC 60893-3-6:2004/A2:2018

Property	Test method in IEC 60893-2 Subclause	Unit	Minimum or Maximum	Nominal thickness of sheet to which test is applicable mm	Type		Remarks
					SI GC 201	SI GC 202	
Flammability	7.2 https://standards.iteh.ai/catalog/standards/sist/638cae1b-b708-443b-9410-6c891f15ee64/sist-iec-60893-3-6-2004-a2-2018 SIST EN IEC 60893-3-6:2004/A2:2018 (standards.iteh.ai)	Category 2		3	V-0	V-0	The small-scale laboratory test used in this standard for assigning a flammability category is primarily for monitoring consistency of production of laminates. The results so obtained should not in any circumstances be considered as an overall indication of the potential fire hazards presented by these laminates under actual conditions of use.
Water absorption	8.2	mg	Maximum	All	See Table 7		

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