



National Standards Authority of Ireland

STANDARD

I.S. EN 60893-2:2004

ICS 29.035.01

**INSULATING MATERIALS - INDUSTRIAL RIGID
LAMINATED SHEETS BASED ON
THERMOSETTING RESINS FOR ELECTRICAL
PURPOSES PART 2: METHODS OF TEST (IEC
60893-2:2003)**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
August 24, 2004*

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EUROPEAN STANDARD

EN 60893-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2004

ICS 29.035.01

Supersedes EN 60893-2:1994

English version

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

Matériaux isolants –
Stratifiés industriels rigides en planches
à base de résines thermodurcissables
à usages électriques
Partie 2: Méthodes d'essai
(CEI 60893-2:2003)

Isolierstoffe –
Tafeln aus technischen
Schichtpressstoffen auf der Basis
warmehärtender Harze für
elektrotechnische Zwecke
Teil 2: Prüfverfahren
(IEC 60893-2:2003)

This European Standard was approved by CENELEC on 2004-05-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 15C/1488/FDIS, future edition 2 of IEC 60893-2, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60893-2 on 2004-05-01.

This European Standard supersedes EN 60893-2:1994.

The major changes during the revision of the EN 60893 series are the following:

- a) new material types have been included;
- b) changes have been made to the property requirements of some existing types;
- c) a new method for testing permittivity and dissipation factor has been added;
- d) all non-specification data for each type has been moved to a new Part 4 document – IEC/TR 60893-4: Typical values.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2005-02-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2007-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60893-2:2003 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60112	- 1)	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	2003 2)
IEC 60167	1964	Methods of test for the determination of the insulation resistance of solid insulating materials	HD 568 S1	1990
IEC 60212	1971	Standard conditions for use prior to and during the testing of solid electrical insulating materials	HD 437 S1	1984
IEC 60216-1	2001	Electrical insulating materials - Properties of thermal endurance Part 1: Ageing procedures and evaluation of test results	EN 60216-1	2001
IEC 60243-1	1998	Electrical strength of insulating materials - Test methods Part 1: Tests at power frequencies	EN 60243-1	1998
IEC 60250	1969	Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths	-	-
IEC 60296	1982	Specification for unused mineral insulating oils for transformers and switchgear	-	-
IEC 60587	1984	Test methods for evaluating resistance to tracking and erosion of electrical insulating materials used under severe ambient conditions	HD 380 S2	1987

1) Undated reference.

2) Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-11-10	1999	Fire hazard testing Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	1999
IEC 60893-1	2004	Insulating materials - Industrial rigid laminated sheets based on thermosetting resins for electrical purposes Part 1: Definitions, designations and general requirements	EN 60893-1	2004
IEC 60893-3	Series	Part 3: Specifications for individual materials	EN 60893-3	Series
IEC/TR 60893-4	2003	Part 4: Typical values	-	-
ISO 62	1999	Plastics - Determination of water absorption	EN ISO 62	1999
ISO 178	2001	Plastics - Determination of flexural properties	EN ISO 178	2003
ISO 179-1	2000	Plastics - Determination of Charpy impact properties Part 1: Non-instrumented impact test	EN ISO 179-1	2000
ISO 179-2	1997	Part 2: Instrumented impact test	EN ISO 179-2	1999
ISO 180	2000	Plastics Determination of Izod impact strength	EN ISO 180	2000
ISO 527-1	1993	Plastics - Determination of tensile properties Part 1: General principles	-	-
ISO 527-4	1997	Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites	EN ISO 527-4	1997
ISO 604	2002	Plastics - Determination of compressive properties	EN ISO 604	2003
ISO 1183	1987	Plastics - Methods for determining the density and relative density of non- cellular plastics	-	-
ISO 3611	1978	Micrometer callipers for external measurement	-	-

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