



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60216-2:2005

ICS 17.220.99
29.035.01

**ELECTRICAL INSULATING MATERIALS -
THERMAL ENDURANCE PROPERTIES --
PART 2: GUIDE FOR THE DETERMINATION
OF THERMAL ENDURANCE PROPERTIES
OF ELECTRICAL INSULATING MATERIALS
- CHOICE OF TEST CRITERIA**

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EUROPEAN STANDARD

EN 60216-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2005

ICS 17.220.99; 29.035.01

Supersedes HD 611.2 S1:1992

English version

**Electrical insulating materials –
Thermal endurance properties
Part 2: Determination of thermal endurance properties
of electrical insulating materials –
Choice of test criteria
(IEC 60216-2:2005)**

Matériaux isolants électriques –
Propriétés d'endurance thermique
Partie 2: Détermination des propriétés
d'endurance thermique de matériaux
isolants électriques –
Choix de critères d'essai
(CEI 60216-2:2005)

Elektroisolierstoffe –
Eigenschaften hinsichtlich des
thermischen Langzeitverhaltens
Teil 2: Leitfaden zur Bestimmung
thermischer Langzeiteigenschaften
von Elektroisolierstoffen –
Auswahl der Prüfmerkmale
(IEC 60216-2:2005)

This European Standard was approved by CENELEC on 2005-08-01. 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 15E/257/FDIS, future edition 4 of IEC 60216-2, prepared by SC 15E*, Methods of test, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60216-2 on 2005-08-01.

This European Standard supersedes HD 611.2 S1:1992.

The main changes from HD 611.2 S1 are as follows:

- editorial;
- Table 1 has been actualized essentially by Part 3 sheets of IEC/SC 15C publications.

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) 2006-05-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2008-08-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60216-2:2005 was approved by CENELEC as a European Standard without any modification.

* Subcommittee 15E has been merged with technical committee 98 into the new technical committee 112.

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 60172	- ¹⁾	Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	1994 ²⁾
IEC 60216-3	- ¹⁾	Electrical insulating materials - Thermal endurance properties Part 3: Instructions for calculating thermal endurance characteristics	EN 60216-3	2002 ²⁾
IEC 60216-5	- ¹⁾	Part 5: Determination of relative thermal endurance index (RTE) of an insulating material	EN 60216-5	2003 ²⁾
IEC 60216-6	- ¹⁾	Part 6: Determination of thermal endurance indices (TI and RTE) of an insulating material using the fixed time frame method	EN 60216-6	2004 ²⁾
IEC 60243-1	- ¹⁾	Electrical strength of insulating materials - Test methods Part 1: Tests at power frequencies	EN 60243-1	1998 ²⁾
IEC 60317	Series	Specifications for particular types of winding wires	EN 60317	Series
IEC 60370	- ¹⁾	Test procedure for thermal endurance of insulating varnishes - Electric strength method	HD 570 S1	1990 ²⁾
IEC 60371	Series	Specification for insulating materials based on mica	EN 60371	Series
IEC 60394	Series	Varnished fabrics for electrical purposes	-	-

1) Undated reference.

2) Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60450	- ¹⁾	Measurement of the average viscometric degree of polymerization of new and aged electrical papers	-	-
IEC 60454	Series	Specifications for pressure-sensitive adhesive tapes for electrical purposes	EN 60454	Series
IEC 60455	Series	Resin based reactive compounds used for electrical insulation	EN 60455	Series
IEC 60464	Series	Varnishes used for electrical insulation	EN 60464	Series
IEC 60554	Series	Specification for cellulosic papers for electrical purposes	-	-
IEC 60626	Series	Combined flexible materials for electrical insulation	EN 60626	Series
IEC 60641	Series	Specification for pressboard and presspaper for electrical purposes	EN 60641	Series
IEC 60667	Series	Specification for vulcanized fibre for electrical purposes	HD 416	Series
IEC 60674	Series	Specification for plastic films for electrical purposes	EN 60674	Series
IEC 60684	Series	Flexible insulating sleeving	EN 60684	Series
IEC 60763	Series	Specification for laminated pressboard	EN 60763	Series
IEC 60819	Series	Specification for non-cellulosic papers for electrical purposes	-	-
IEC 60893	Series	Insulating materials - Industrial rigid laminated sheets based on thermosetting resins for electrical purposes	EN 60893	Series
IEC 61033	- ¹⁾	Test methods for the determination of bond strength of impregnating agents to an enamelled wire substrate	-	-
ISO 37	- ¹⁾	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties	-	-
ISO 178	- ¹⁾	Plastics - Determination of flexural properties	EN ISO 178	2003 ²⁾
ISO 179-1	- ¹⁾	Plastics - Determination of Charpy impact properties Part 1: Non-instrumented impact test	EN ISO 179-1	2000 ²⁾
ISO 527-2	- ¹⁾	Plastics - Determination of tensile properties Part 2: Test conditions for moulding and extrusion plastics	EN ISO 527-2	1993 ²⁾

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