

**DRAFTS IN WIDE  
CIRCULATION**

**Document Despatch Advice**

REFERENCE	DATE
ETD 02/ T-125, T-126	01-07-2010

**TECHNICAL COMMITTEE ETD 02**

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ADDRESSED TO:

1. All Members of Solid Electrical Insulating Materials and Insulating Systems Sectional Committee, ET 02;
2. All Members of Electrotechnical Division Council; and
3. All other Interested.

Dear Sir(s),

Please find enclosed a copy each of the following draft Indian Standards:

DOC NO.	TITLE
ETD 02(6269) [IEC 60626-1[2009]	Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements [ <i>First Revision</i> of IS 12747(Part 1)]
ETD 02(6270) [IEC 60626-2[2009]	Combined flexible materials for electrical insulation – Part 2: Methods of test [ <i>First Revision</i> of IS 12747(Part 2)]

Kindly examine the draft standards and forward your views stating any difficulties which you are likely to experience in your business or profession, if these are finally adopted as Indian Standards.

Comments, if any, may please be made in the format given overleaf and mailed to the undersigned.

Last date for comments: **30-08-2010.**

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case of comments of technical in nature are received then it may be finalized either in consultation with the Chairman, Sectional Committee or referred to the Sectional Committee for further necessary action, if so desired by the Chairman, Sectional Committee.

Thanking you,

Yours faithfully

(R.K. Trehan)  
Sc 'F' & Head (Electrotechnical)  
Email: [eedt@bis.org.in](mailto:eedt@bis.org.in)

Encl: As above

**व्यापक परिचालन में मसौदे**

**प्रलेख प्रेषण संज्ञापन**

संदर्भ ईटी ०२/टी-१२५, टी-१२६

दिनांक ०१-०७-२०१०

तकनीकी समिति: ईटी ०२

- .....
- प्रेषती: १। ईटी ०२ के सभी सदस्य  
२। विद्युत तकनीकी विभाग परिषद, तथा  
३। रूचि रखने वाले अन्य सभी निकाय

महोदय,

कृप्या निम्नलिखित मसौदे संलग्न हैं :

प्रलेख	शीर्षक
ईटी ०२(६२६९)	विद्युत रोधन के लिए संयुक्त नम्य सामग्री भाग 1 परिभाषा और सामान्य अपेक्षाएँ [आई एस १२७४७ (भाग १) का प्रथम पुरीक्षण]
ईटी ०२(६२७०)	विद्युत रोधन के लिए संयुक्त नम्य सामग्री भाग २ परीक्षण पद्धतियाँ [आई एस १२७४७ (भाग २) का प्रथम पुरीक्षण]

सम्मतियाँ भेजने की अंतिम तारीख **३०-०८-२०१०**।

सम्मतियाँ यदि कोई हों तो कृप्या अगले पृष्ठ पर दिए पत्र में अधोहस्ताक्षरी को उपरिलिखित पते पर भेज दें।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दिया जाएगा। यदि कोई सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिए विषय समिति को भेजे जाने के बाद प्रलेख को अंतिम रूप दे दिया जाएगा

धन्यवाद,

भवदीय,

(आर के त्रेहन)

वैज्ञानिक 'एफ' एवं प्रमुख (विद्युत तकनीकी)

संलग्न : उपरिलिखित



Solid Electrical Insulating Materials and Insulating Systems Sectional Committee, ET 02

## NATIONAL FOREWORD

This Indian Standard (*First Revision*) which is identical with IEC 60626-1:2009 'Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements' issued by the International Electrotechnical Commission (IEC) is prepared to be adopted by the Bureau of Indian Standards on the recommendations of the Solid Electrical Insulating Materials and Insulating Systems Sectional Committee and approval of the Electrotechnical Division Council.

This standard was first published in 1989. This first revision has been undertaken to align the standard with the latest edition of IEC 60626-1.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminology and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60554-3-1:1979, Specification for cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: General purpose electrical paper	IS 9335(Part 3/Sec 1) : 1984 Cellulosic papers for electrical purposes: Part 3 Specifications for individual materials, Section 1 General purposes electrical paper	Technical Equivalent
IEC 60626-3:2008, Combined flexible materials for electrical insulation – Part 3: Specifications for individual materials	IS 12747 : Part 3 : 1998 Combined flexible materials for electrical insulation: Part 3 Specifications for individual materials	- do -
IEC 60674-3-2:1992, Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Requirements for balanced	IS 11298 : Part 3 : Sec 3 : 1998/IEC 694-3-2 : 1992 Plastic films for electrical purposes: Part 3 Specifications for individual materials, Section 3 Requirements	Identical

biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation IEC 60674-3-4:1993, Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 4: Requirements for polyimide (PI) films used for electrical insulation	for balanced biaxially oriented Polyethylene Terephthalate(PET) films used for electrical IS 11298 (Part 3/Sec 5 to 7) : 1998 Plastic Films for Electrical Purposes - Part 3 : Specification for Individual Materials - Section 5 to 7 : Requirements for Polyimide Films Used for Electrical Insulation	Identical
IEC 60819-3-3:2008, Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 3: Unfilled aramid (aromatic polyamide) papers	IS 12316 (Part 3/Sec 1) : 1988 ) Specification for Non-cellulosic ) Papers for Electrical Purposes – ) Part 3 : Requirements for ) Individual Materials - Section 1 : ) Unfilled Aramid (Aromatic ) Polyamide) Papers Calendered ) IS 12316 (Part 3/Sec 2) 1988 Non- ) cellulosic papers for electrical ) purposes: Part 3 Requirements for ) individual materials, Section 2 ) Unfilled aramid (Aromatic ) Polyamide) Paper, uncalendered )	)Technical )Equivalent

The technical committee responsible for the preparation of this standard has reviewed the provisions of the following International Standards referred to in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
IEC 60641-3-2:2007	Pressboard and presspaper for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Requirements for presspaper, types P.2.1, P.4.1, P.4.2, P.4.3 and P.6.1
IEC 60674-3-8	Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 8: Requirements for balanced biaxially oriented polyethylene naphthalate (PEN) films used for electrical insulation 1
IEC 60819-3-1:2001	Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Filled glass paper

- IEC 60819-3-2:2001 Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Hybrid inorganic-organic paper
- IEC 60819-3-4: 2001 Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 4: Aramid fibre paper containing not more than 50 % of mica particles

Only the English text of the IEC Publication has been retained while adopting it as an Indian Standard and as such the page numbers given here are not same as in IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2:1960 'Rules for rounding of numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Solid Electrical Insulating Materials and insulating systems Sectional Committee, ET 02

## NATIONAL FOREWORD

This Indian Standard (*First Revision*) which is identical with IEC 60626-2:2009 'Combined flexible materials for electrical insulation – Part 2: Methods of test' issued by the International Electrotechnical Commission (IEC) is prepared to be adopted by the Bureau of Indian Standards on the recommendation of the Solid Electrical Insulating Materials and Insulating Systems Committee and approval of the Electrotechnical Division Council.

This standard was first published in 1989. This first revision has been undertaken to align the standard with the latest edition of IEC 60626-2.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminology and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60243-1:1998, Electrical strength of insulating materials – Test methods – Part 1: Tests at power frequencies	IS 2584 : 1963 Method of test for electric strength of solid insulating materials at power frequencies	Technically Equivalent
IEC 60626-3:2008, Combined flexible materials for electrical insulation – Part 3: Specifications for individual materials	IS 12747 (Part 3) : 1998 Combined flexible materials for electrical insulation: Part 3 Specifications for individual materials	- do -

The technical committee responsible for the preparation of this standard has reviewed the provisions of the following International Standards referred to in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
IEC 60216-4-1:2006	Electrical insulating materials – Thermal endurance properties – Part 4: Ageing ovens – Section 1: Single-chamber ovens
ISO 536 : 1995	Paper and board – Determination of grammage

Only the English text of the IEC Publication has been retained while adopting it is an Indian Standard and as such the page numbers given here are not same as in IEC Publications.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2:1960 ‘Rules for rounding of numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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