



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 50363-7:2005**

ICS 29.035.20

**INSULATING, SHEATHING AND COVERING  
MATERIALS FOR LOW VOLTAGE ENERGY  
CABLES -- PART 7: HALOGEN-FREE,  
THERMOPLASTIC INSULATING  
COMPOUNDS**

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*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland and comes into  
effect on:  
December 16, 2005*

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EUROPEAN STANDARD

**EN 50363-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 29.035.20

English version

**Insulating, sheathing and covering materials  
for low voltage energy cables  
Part 7: Halogen-free, thermoplastic insulating compounds**

Matériaux pour enveloppe isolante,  
gainage et revêtement pour les câbles  
d'énergie basse tension  
Partie 7: Mélanges thermoplastiques sans  
halogène pour enveloppe isolante

Isolier-, Mantel- und  
Umhüllungswerkstoffe für  
Niederspannungskabel und -leitungen  
Teil 7: Halogenfreie, thermoplastische  
Isoliermischungen

This European Standard was approved by CENELEC on 2005-11-01. 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.

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**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

This European Standard was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50363-7 on 2005-11-01.

EN 50363 (in all its parts) supersedes the equivalent information at present in HD 21.1 S4, HD 21.14 S1, HD 22.1 S4, HD 22.10 S1, HD 22.14 S2 and prHD 21.15 S1. The existing information in these HDs will be deleted at the next maintenance review.

EN 50363-7 should be read in conjunction with EN 50363-0.

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) 2006-11-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-11-01

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## 1 Scope

This part of EN 50363 specifies the requirements for the physical properties of the harmonised halogen-free thermoplastic insulating compounds given in Table 1. The relevant test methods are given in EN 60811 series, EN 50267-2 (series), EN 60684-2 and EN 50396.

NOTE 1 Requirements for smoke emission, which are based on tests on cables and not individual materials, are given in the relevant cable standard.

NOTE 2 This part of EN 50363 is to be read in conjunction with EN 50363-0.

**Table 1 – Types of halogen-free thermoplastic insulating compounds**

Type	Maximum material operating temperature °C	General application
TI 6	70	Ordinary duty for flexible cables
TI 7	70	General purpose

## 2 Normative references

For the purposes of this part of EN 50363, the requirements of EN 50363-0, Clause 2, apply with regard to normative references.

## 3 Definitions

For the purposes of this part of EN 50363, the definitions given in EN 50363-0, Clause 3, apply.

## 4 Properties

Each compound shall meet the particular requirements listed in Table 2, when using the test methods referenced in columns 4 and 5.

NOTE For cross-references to the latest editions of the test method standards see Table 2 of EN 50363-0.

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