IEC 62677-1

Edition 1.0 2017-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

## Heat shrinkable low and medium voltage moulded shapes – Part 1: General requirements

## Profilés thermorétractables basse et moyenne tensions – Partie 1: Exigences générales

IEC 62677-1:2017-10(en-fr)

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## Part 1: General requirements

## FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62677-1 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

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

| FDIS | Report on voting |
|---|---|
| 15/806/FDIS | 15/810/RVD |

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62677 series, published under the general title *Heat shrinkable low and medium voltage moulded shapes*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

# INTRODUCTION

This part of IEC 62677 is one of a series which deals with heat shrinkable low and medium voltage moulded shapes. The series consists of three parts:

Part 1: General requirements (IEC 62677-1)

Part 2: Methods of test (IEC 62677-2[1])

Part 3: Material requirements (IEC 62677-3-101[2], IEC 62677-3-102[3] and IEC 62677-3-103[4])

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[1] Under preparation. Stage at the time of publication: IEC RFDIS IEC 62677-2:2017.

[2] Under preparation. Stage at the time of publication: IEC AFDIS IEC 62677-3-101:2017.

[3] Under preparation. Stage at the time of publication: IEC AFDIS IEC 62677-3-102:2017.

[4] Under preparation. Stage at the time of publication: IEC ACDV IEC 62677-3-103:2017.

# HEAT SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –

## Part 1: General requirements

## 1 Scope

This document is applicable to heat shrinkable low and medium voltage moulded shapes in a range of configurations and materials suitable for insulation, environmental sealing, mechanical protection, electrical conductance, anti-tracking and strain relief for power cable terminations, joints and stop ends. It specifies the test methods and material requirements. The most commonly available shapes are as shown in the Annex A.

Materials which conform to this document meet established levels of performance. However, the selection of a material by a user for a specific application will be based on the actual requirements necessary for adequate performance in that application and will not be based on this document alone.

These moulded shapes are designed to be used in low and medium voltage cable accessories and as such electrical performance will be proven as part of the assembly. Examples of this are described in EN 50393, HD 629.1 and IEC 60502-4.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available at http://www.electropedia.org)

IEC 60050-212:2010, *International Electrotechnical Vocabulary - Part 212: Electrical insulating solids, liquids and gases*
IEC 60050-212:2010/AMD1:2015
IEC 60050-212:2010/AMD2:2015

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-212:2010/IEC 60050-212:2010/AMD1:2015/IEC 60050-212:2010/AMD2:2015, Section 11 (terms relating to electric properties) and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp