

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Heat shrinkable low and medium voltage moulded shapes –  
Part 2: Methods of test**

**Profils thermorétractables basse et moyenne tensions –  
Partie 2: Méthodes d'essai**





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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## HEAT SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –

### Part 2: Methods of test

#### FOREWORD

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International Standard IEC 62677-2 has been prepared by committee TC15: Solid electrical insulating materials.

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

FDIS	Report on voting
15/807/FDIS	15/811/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

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## 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<sup>1</sup>)

Part 2: Methods of test (IEC 62677-2)

Part 3: Material requirements (IEC 62677-3-101<sup>2</sup>, IEC 62677-3-102<sup>3</sup> and IEC 62677-3-103<sup>4</sup>)

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC RFDIS IEC 62677-1:2017.

<sup>2</sup> Under preparation. Stage at the time of publication: IEC AFDIS IEC 62677-3-101:2017.

<sup>3</sup> Under preparation. Stage at the time of publication: IEC AFDIS IEC 62677-3-102:2017.

<sup>4</sup> Under preparation. Stage at the time of publication: IEC ACDV IEC 62677-3-103:2017.

# HEAT SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –

## Part 2: Methods of test

### 1 Scope

This part of IEC 62677 gives methods of test for heat shrinkable low and medium voltage moulded shapes in a range of configurations and materials suitable for insulation, environmental sealing, mechanical protection and strain relief for connector/cable terminations and multi-way transitions.

The tests specified are designed to control the quality of the moulded shapes but it is recognized that they 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 60212:2010, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 60216-4-1:2006, *Electrical insulating materials – Thermal endurance properties – Part 4-1: Ageing ovens – Single-chamber ovens*

IEC 60216-4-2:2000, *Electrical insulating materials – Thermal endurance properties – Part 4-2: Ageing ovens – Precision ovens for use up to 300 °C*

IEC 60243-1:2013, *Electric strength of insulating materials – Test methods – Part 1: Tests at power frequencies*

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 60587:2007, *Electrical insulating materials used under severe ambient conditions – Test methods for evaluating resistance to tracking and erosion*

IEC 62631-3-1:2016, *Dielectric and resistive properties of solid insulating materials – Part 3-1: Determination of resistive properties (DC methods) – Volume resistance and volume resistivity – General method*

IEC 60695-11-2:2013, *Fire hazard testing – Part 11-2: Test flames – 1 kW pre-mixed flame – Apparatus, confirmatory test arrangement and guidance*

IEC 60695-11-10:2013, *Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods*

IEC 62677-3 (all parts), *Heat shrinkable low and medium voltage moulded shapes*

ISO 62:2008, *Plastics – Determination of water absorption*

ISO 846:1997, *Plastics – Evaluation of the action of microorganisms*