

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Heat-shrinkable low and medium voltage moulded shapes –  
Part 3: Specification for individual materials – Sheet 103: Heat-shrinkable,  
polyolefin, conductive moulded shapes for medium voltage applications**

**Profils thermorétractables basse et moyenne tensions –  
Partie 3: Spécification pour matériaux particuliers – Feuille 103: Profils  
thermorétractables conducteurs en polyoléfine pour applications moyenne  
tension**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HEAT-SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –****Part 3: Specification for individual materials –  
Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for  
medium voltage applications**

## FOREWORD

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International Standard IEC 62677 has been prepared by committee TC 15: Solid electrical insulating materials.

The text of this International Standard is based on the following documents:

CDV	Report on voting
15/833/CDV	15/861/RVC

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- withdrawn,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.

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## INTRODUCTION

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

- Part 1: General requirements (IEC 62677-1)
- Part 2: Methods of test (IEC 62677-2) 1
- Part 3: Specification for individual materials

This standard gives one of the sheets comprising Part 3 as follows:

Sheet 103: Heat shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

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# HEAT-SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES

## Part 3: Specification for individual materials

### Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for medium voltage applications

#### 1 Scope

This part of IEC 62677 is applicable to heat shrinkable low and medium voltage moulded shapes, conductive, in a range of configurations suitable for environmental sealing, mechanical protection, strain relief for power cable terminations, joints and stop ends. These moulded shapes have been found suitable for use for temperatures between  $-40\text{ }^{\circ}\text{C}$  and  $100\text{ }^{\circ}\text{C}$ .

The moulded shapes can be supplied with a pre-coated adhesive. A guide to adhesive compatibility and temperature performance is given in Annex A. The manufacturers/suppliers can be consulted for options.

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

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 and IEC 60502 (all parts).

#### 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 60296, *Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear*

IEC 60757, *Code for designation of colours*

IEC 62677-1, *Heat shrinkable low and medium voltage moulded shapes – Part 1: General requirements*

IEC 62677-2:2017, *Heat shrinkable low and medium voltage moulded shapes – Part 2: Methods of test*

#### 3 Terms and definitions

No terms and definitions are listed in this document.

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