

Heat-shrinkable low and medium voltage moulded shapes - Part 3: Specification for individual materials - Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 62677-3-101:2018 sisaldab Euroopa standardi EN IEC 62677-3-101:2018 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 62677-3-101:2018 consists of the English text of the European standard EN IEC 62677-3-101:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.03.2018.	Date of Availability of the European standard is 23.03.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

Heat-shrinkable low and medium voltage moulded shapes - Part
3: Specification for individual materials - Sheet 101: Heat-
shrinkable, polyolefin moulded shapes for low voltage
applications
(IEC 62677-3-101:2018)

Profils thermorétractables basse et moyenne tensions -
Partie 3: Spécification pour matériaux particuliers - Feuille
101: Profils thermorétractables en polyoléfine pour
applications basse tension
(IEC 62677-3-101:2018)

Wärmeschrumpfende Nieder- und Mittelspannungsformteile
- Teil 3: Materialanforderungen - Blatt 101:
Wärmeschrumpfende Formteile aus Polyolefin für
Niederspannungsanwendungen
(IEC 62677-3-101:2018)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 15/814/FDIS, future edition 1 of IEC 62677-3-101, prepared by IEC/TC 15 "Solid electrical insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62677-3-101:2018.

The following dates are fixed:

- latest date by which the document has to be (dop) 2018-11-14
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2021-02-14
standards conflicting with the
document have to be withdrawn

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Endorsement notice

The text of the International Standard IEC 62677-3-101:2018 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60684-3-214:2013	NOTE	Harmonized as EN 60684-3-214:2014 (not modified).
IEC 60684-3-247:2011	NOTE	Harmonized as EN 60684-3-247:2011 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60296	-	Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgear	EN 60296	-
IEC 60757	-	Code for designation of colours	HD 457 S1	-
IEC 62677-1	-	Heat shrinkable low and medium voltage moulded shapes -- Part 1: General requirements	EN IEC 62677-1	-
IEC 62677-2	-	Heat shrinkable low and medium voltage moulded shapes -- Part 2: Methods of test	EN IEC 62677-2	-
ISO 846	-	Plastics - Evaluation of the action of microorganisms	EN ISO 846	-
ISO 868	-	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)	EN ISO 868	-

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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. The series consists of three parts:

Part 1: General requirements (IEC 62677-1);

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

Part 3: Specification for individual materials (IEC 62677-3).

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

Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications

Sheet 102: Heat-shrinkable, polyolefin, anti-tracking moulded shapes for medium voltage applications

Sheet 103: Heat-shrinkable, polyolefin, semi-conductive moulded shapes for 8 medium voltage applications

HEAT-SHRINKABLE LOW AND MEDIUM VOLTAGE MOULDED SHAPES –

Part 3: Specification for individual materials – Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications

1 Scope

This part of IEC 62677 is applicable to heat shrinkable low voltage moulded shapes in a range of configurations suitable for insulation, 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 °C and 100 °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.

The material is available in two types:

Type A – Flame retardant

Type B – Not flame retardant

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.

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 60502-1.

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

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