

Resin based reactive compounds used for electrical insulation - Part 3-8: Specifications for individual materials - Resins for cable accessories

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60455-3-8:2021 sisaldab Euroopa standardi EN IEC 60455-3-8:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60455-3-8:2021 consists of the English text of the European standard EN IEC 60455-3-8:2021.
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EUROPEAN STANDARD

**EN IEC 60455-3-8**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2021

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Supersedes EN 60455-3-8:2013 and all of its amendments and corrigenda (if any)

English Version

**Resin based reactive compounds used for electrical insulation -  
Part 3-8: Specifications for individual materials - Resins for cable  
accessories  
(IEC 60455-3-8:2021)**

Composés réactifs à base de résines utilisés comme isolants électriques - Partie 3-8: Spécifications pour matériaux particuliers - Résines pour accessoires de câble (IEC 60455-3-8:2021)

Reaktionsharzmassen für die Elektroisolierung - Teil 3: Anforderungen an einzelne Werkstoffe - Blatt 8: Reaktionsharzmassen für Kabelgarnituren (IEC 60455-3-8:2021)

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## European foreword

The text of document 15/937/FDIS, future edition 2 of IEC 60455-3-8, prepared by IEC/TC 15 "Solid electrical insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60455-3-8:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-04-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-07-21

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

IEC 60455-1	NOTE Harmonized as EN 60455-1
IEC 60455-3 (series)	NOTE Harmonized as EN 60455-3 (series)
IEC 61234-2	NOTE Harmonized as EN 61234-2
ISO 291	NOTE Harmonized as EN ISO 291
ISO 2592	NOTE Harmonized as EN ISO 2592
ISO 3521	NOTE Harmonized as EN ISO 3521

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60212	-	Standard conditions for use prior to and during the testing of solid electrical insulating materials	EN 60212	-
IEC 60243-1	-	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies	EN 60243-1	-
IEC 60455-2	2015	Resin based reactive compounds used for electrical insulation - Part 2: Methods of test	EN 60455-2	2015
IEC 62631-2-1	-	Dielectric and resistive properties of solid insulating materials - Part 2-1: Relative permittivity and dissipation factor - Technical Frequencies (0,1 Hz - 10 MHz) - AC Methods	EN IEC 62631-2-1	-
IEC 62631-3-1	-	Dielectric and resistive properties of solid insulating materials - Part 3-1: Determination of resistive properties (DC methods) - Volume resistance and volume resistivity - General method	EN 62631-3-1	-
IEC 62631-3-2	-	Dielectric and resistive properties of solid insulating materials - Part 3-2: Determination of resistive properties (DC methods) - Surface resistance and surface resistivity	EN 62631-3-2	-
ISO 179	series	Plastics - Determination of Charpy impact-properties		-
ISO 527	series	Plastics - Determination of tensile properties	EN ISO 527	series
ISO 868	-	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)	EN ISO 868	-

ISO 1183-1	-	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method	EN ISO 1183-1	-
ISO 2137	-	Petroleum products and lubricants -- Determination of cone penetration of lubricating greases and petrolatum		-
ISO 2555	-	Plastics - Resins in the liquid state or as emulsions or dispersions - Determination of apparent viscosity using a single cylinder type rotational viscometer method	EN ISO 2555	-
ISO 4895	-	Plastics - Liquid epoxy resins - Determination of tendency to crystallize	EN ISO 4895	-

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Resin based reactive compounds used for electrical insulation –  
Part 3-8: Specifications for individual materials – Resins for cable accessories**

**Composés réactifs à base de résines utilisés comme isolants électriques –  
Partie 3-8: Spécifications pour matériaux particuliers – Résines pour  
accessoires de câble**



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IEC Central Office  
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CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Resin based reactive compounds used for electrical insulation –  
Part 3-8: Specifications for individual materials – Resins for cable accessories**

**Composés réactifs à base de résines utilisés comme isolants électriques –  
Partie 3-8: Spécifications pour matériaux particuliers – Résines pour  
accessoires de câble**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RESIN BASED REACTIVE COMPOUNDS USED  
FOR ELECTRICAL INSULATION –****Part 3-8: Specifications for individual materials –  
Resins for cable accessories**

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International Standard IEC 60455-3-8 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Clause 1: a link to assemblies according to IEC 60502-4 and EN 50393 was introduced;
- b) designation: the categories, especially the mechanical ones, were redefined;
- c) type tests: the testing was updated based on the chemical basis of the material;
- d) type tests: additional materials were introduced;
- e) Annex A: an examination grid was established.

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

FDIS	Report on voting
15/937/FDIS	15/941/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 60455 series, published under the general title *Resin based reactive compounds used for electrical insulation*, 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 [webstore.iec.ch](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 60455 is one of a series which deals with specifications for reactive compounds and their components for electrical insulation. This series consists of three parts:

Part 1: Definitions and general requirements (IEC 60455-1);

Part 2: Methods of test (IEC 60455-2);

Part 3: Specifications for individual materials (IEC 60455-3)

IEC 60455-3-8 is one of the specification sheets comprising Part 3 as follows:

Sheet 8: Resins for cable accessories

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