

INTERNATIONAL STANDARD

**Resin based reactive compounds used for electrical insulation –
Part 2: Methods of test**





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IEC 60455-2

Edition 3.0 2015-06

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**Resin based reactive compounds used for electrical insulation –
Part 2: Methods of test**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 17.220.99; 29.035.01

ISBN 978-2-8322-2748-0

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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions	11
4 General notes on methods of test.....	11
4.1 Preparation and conditioning	11
4.2 Sequence of tests	12
4.3 Test report	12
5 Methods of test for reactive compounds and their components	12
5.1 Flash point.....	12
5.2 Density	12
5.3 Viscosity	12
5.4 Viscosity after storing at elevated temperature.....	12
5.5 Content of volatile organic components	13
5.6 Isothermal increase of viscosity (processing time).....	13
5.7 Shelf life	13
5.8 Colour.....	13
5.9 Softening temperature	14
5.10 Ash content.....	14
5.11 Filler content.....	14
5.12 Chlorine content.....	14
5.12.1 Total chlorine content of unsaturated polyesters and epoxide resins.....	14
5.12.2 Inorganic chlorine content of epoxide resins and glycidyl esters	14
5.12.3 Easily saponifiable chlorine content of epoxide resins and related materials.....	14
5.13 Tendency of cristallisation	14
5.14 Epoxide equivalent of epoxide resins	14
5.15 Content of isocyanate.....	14
5.16 Water content (Karl Fischer method).....	14
5.17 Hydroxyl value	15
5.17.1 Polyester resins	15
5.17.2 Resins other than polyester.....	15
5.18 Acid value of polyester resins	15
5.19 Amount of double bonds of unsaturated polyester and acrylate resins	15
5.20 Acid and acid-anhydride content of acid-anhydride hardeners	15
5.21 Amine value	15
5.22 Pot life	15
5.22.1 General	15
5.22.2 Resinous compounds for cable accessories.....	15
5.23 Gel time	16
5.23.1 Unsaturated polyester based compounds	16
5.23.2 Phenolic resin based compounds	16
5.23.3 Other compounds.....	16
5.24 Exothermic temperature rise.....	16
5.24.1 Unsaturated polyester based compounds	16
5.24.2 Resinous compounds for cable accessories.....	16

5.24.3	Other compounds.....	17
5.25	Total volume shrinkage of epoxide and unsaturated polyester based compounds	17
5.26	Curing in presence of water.....	17
5.26.1	General	17
5.26.2	Apparatus and materials.....	17
5.26.3	Pouring device	18
5.26.4	Procedure	18
5.26.5	Test report.....	18
5.27	Determination of the degree of curing	18
5.28	Curing in thick layer and emissions during curing	18
5.28.1	General	18
5.28.2	Equipment	19
5.28.3	Test specimen	19
5.28.4	Procedure.....	19
6	Methods of test for cured reactive compounds	20
6.1	General.....	20
6.2	Test specimens.....	20
6.2.1	General	20
6.2.2	Preparation of the reactive compound.....	20
6.2.3	Preparation of test specimens	21
6.2.4	Type and number of test specimens	21
6.3	Density	21
6.4	Mechanical properties	21
6.4.1	Tensile properties	21
6.4.2	Compressive properties.....	21
6.4.3	Flexural properties	22
6.4.4	Impact strength	22
6.4.5	Hardness	22
6.5	Thermal properties	22
6.5.1	Bond strength at elevated temperature	22
6.5.2	Linear thermal expansion	22
6.5.3	Thermal conductivity	22
6.5.4	Glass transition.....	23
6.5.5	Flammability	23
6.5.6	Thermal shock	23
6.5.7	Dry heat resistance of resins for cable accessories – Method of test	23
6.5.8	Wet heat resistance of resins for cable accessories	24
6.5.9	Loss of mass	26
6.5.10	Temperature index	27
6.6	Chemical properties	27
6.6.1	Water absorption.....	27
6.6.2	Effect of liquid chemicals.....	28
6.6.3	Resistance to mould growth	28
6.6.4	Water vapour permeability.....	28
6.7	Electrical properties	28
6.7.1	Effect of water immersion on volume resistivity	28
6.7.2	Dielectric dissipation factor ($\tan \delta$) and relative permittivity (ϵ_r).....	29
6.7.3	Breakdown voltage and electric strength.....	30

6.7.4	Proof tracking index (PTI).....	31
6.7.5	Electrolytic corrosion.....	31
Annex A (informative)	Health and safety.....	36
Bibliography	37
Figure 1	– Test apparatus for curing in presence of water test	32
Figure 2	– Test set-up for volume resistivity	33
Figure 3	– Example of electrode arrangement for flexible cured compound	34
Figure 4	– Example of electrode arrangement for rigid cured compound.....	35
Table 1	– Condition of the top side	19
Table 2	– Condition of the bottom side	19
Table 3	– Condition of the interior	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RESIN BASED REACTIVE COMPOUNDS
USED FOR ELECTRICAL INSULATION –****Part 2: Methods of test**

FOREWORD

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International Standard IEC 60455-2 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This third edition cancels and replaces the second edition published in 1998. This edition constitutes a technical revision.

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

- a) Introduction of test methods related to IEC 60455-3-8;
- b) Additional and updated test methods for resins.

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

FDIS	Report on voting
15/751/FDIS	15/757/RVD

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

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

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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

This part of IEC 60455 is one of a series which deals with solvent-free resin based reactive compounds and their components used for electrical insulation.

The 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).

RESIN BASED REACTIVE COMPOUNDS USED FOR ELECTRICAL INSULATION –

Part 2: Methods of test

1 Scope

This part of IEC 60455 specifies methods of test to be used for testing resin based reactive compounds, their components and cured compounds used for electrical insulation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60068-2-10:2005, *Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth*

IEC 60093:1980, *Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials*

IEC 60112:2003, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60216 (all parts), *Electrical insulating materials – Thermal endurance properties*

IEC 60243-1:1998, *Electrical 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 60296:2012, *Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear*

IEC 60426:2007, *Electrical insulating materials – Determination of electrolytic corrosion caused by insulating materials – Test methods*

IEC 60455-1:1998, *Resin based reactive compounds used for electrical insulation – Part 1: Definitions and general requirements*

IEC 60455-3 (all parts), *Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials*

IEC 60455-3-8:2013, *Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 8: Resins for cable accessories*