

TECHNICAL REPORT

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First edition
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**Selection guide for polymeric materials
for outdoor use under HV stress**

Withdrawn



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SELECTION GUIDE FOR POLYMERIC MATERIALS FOR OUTDOOR USE UNDER HV STRESS

FOREWORD

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IEC 62039, which is a technical report, has been prepared by IEC technical committee 112: Evaluation and qualification of electrical insulating materials and systems.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
112/34/DTR	112/54/RVC

Full information on the voting for the approval of this technical report 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.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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- withdrawn;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.

Withdrawn

INTRODUCTION

There is an urgent need within utilities and industry for material standards, which define the physical properties of the polymers applied for outdoor insulation. This requirement was identified during discussions in IEC TC 36 and IEC TC 15 which is today part of IEC TC 112. As a consequence, in the year 2001, CIGRE formed the WG D1.14 with the specific task of defining the physical parameters important for the polymeric materials applied in outdoor insulation and to develop the relevant test methods where necessary. As a first step, a state-of-the-art report was issued by CIGRE in the brochure 255. Twelve properties have been identified; standardised test methods and minimum requirements were available for eight of them. For the remaining four properties, test methods and minimum requirements still need to be defined. This will be the future task of WG D1. This IEC Technical Report presents – as conclusion of the CIGRE-report – the important material properties for polymeric materials used in outdoor insulation and where they are applicable, and lists the standardised test methods including the minimum requirements. If no standardised tests are available, then test methods reported in literature are summarised.

Withdrawal