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INTERNATIONAL STANDARD

Printed electronics –
Part 401: Printability – Overview

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IEC 62899-401 has been prepared by IEC technical committee 119:Printed electronics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2017. This edition constitutes a technical revision.

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

a) The published IEC 62899-4XX documents are listed in the Bibliography.
b) The definitions of printed electronics, printed pattern, and void are modified.
c) The term printing media is specified as printing plate.
d) The term pattern width is specified as line pattern width.
e) The term thickness is specified as thickness of printed line.

f) The definition of basic pattern is modified.

g) The structure of IEC 62899-4XX series is updated according to the present projected documents numbering.

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

Draft	Report on voting
119/535/FDIS	119/542/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62899 series, published under the general title *Printed electronics*, 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

This part of IEC 62899 contains an overview of measurements and requirements for printability in printed electronics. The IEC 62899-4XX series provides highly reliable measurements for the comparable evaluation and the necessary specifications for the quality and reproducibility of printed patterns.

Quality and reproducibility of the printing technology in electronics manufacturing help to facilitate international trade and enhanced user value in the field of printed electronics.

PRINTED ELECTRONICS –

Part 401: Printability – Overview

1 Scope

This part of IEC 62899 provides an overview of the IEC 62899-4XX series and explains its modular structure. The IEC 62899-4XX series establishes requirements for the printability of printed electronics. These requirements are stated as measurement of quality, reproducibility, analysis and compliance test methods, as well as measuring methods for environmental conditions.

The IEC 62899-4XX series specifies the measurements and the requirements of both the quality and the reproducibility of printed patterns as the result of the interaction of printing plate, ink, substrate, and environmental condition.

2 Normative references

There are no normative references in this document.