

BSI Standards Publication

Superabsorbent polymer — Sodium polyacrylate resin for absorbing blood

Part 2: Specifications



BS ISO 19699-2:2017 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of ISO 19699-2:2017.

The UK participation in its preparation was entrusted to Technical Committee PRI/75, Plastics and rubber film and sheets.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Partie 2: Spécifications



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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

A list of all parts in the ISO 19699 series can be found on the ISO website.

Introduction

The property requirements described in this document have been practically used by relevant production enterprises for several years. They have proven to be reliable with respect to common criteria of quality of superabsorbent polymer of sodium polyacrylate resin used in hygiene products (such as sanitary towels and pads) and medical products (such as tourniquets and surgery coats).

The International Organization for Standardization (ISO) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the property requirements of residual monomers, volatile content, pH, particle size distribution, density, blood absorption capacity and blood absorption rate given in <u>Clause 4</u>.

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Superabsorbent polymer — Sodium polyacrylate resin for absorbing blood —

Part 2: **Specifications**

1 Scope

This document specifies the requirements for properties, marking and packaging of superabsorbent polymer (SAP) made from sodium polyacrylate resin for absorbing blood.

This document applies to sodium polyacrylate resin, as raw material, and applies to SAP for the final products used for absorbing blood.

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.

ISO 17190-1, Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials — Part 1: Determination of pH

ISO 17190-2, Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials — Part 2: Determination of amount of residual monomers

ISO 17190-3, Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials — Part 3: Determination of particle size distribution by sieve fractionation

ISO 17190-4, Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials — Part 4: Determination of moisture content by mass loss upon heating

ISO 17190-9, Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials — Part 9: Gravimetric determination of density

ISO 19699-1:2017, Plastics — Superabsorbent polymer — Sodium polyacrylate resin for absorbing blood — Part 1: Test methods

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19699-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp