Fourth edition
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Pulps — Laboratory sheets — Determination of physical properties

Pâtes — Feuilles de laboratoire — Détermination des propriétés physiques

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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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 172, *Pulp, paper and board,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 5270:2012), which has been technically revised.

The main changes are as follows:

— 6.2: rewriting of the subclause;

— 6.3: permission to perform optical tests on sheets formed using the Rapid-Köthen method if the sheets are dried at room temperature;

— 6.4: introduction of a minimum area for grammage determination;

— 7.2 inclusion of the option to report strain at break following determination of tensile properties;

— 7.5: inclusion of the option to determine air permeance using the Oken method.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides the determination of physical properties of both low-grammage sheets and high-grammage sheets, prepared according to ISO 5269-1, ISO 5269-2 or ISO 5269-3. The oven-dry grammage of low-grammage sheets is (60 ± 2) g/m^2 using the conventional sheet former, as described in ISO 5269-1 and ISO 5269-3, or (75 ± 2) g/m^2 using the Rapid-Köthen sheet former, as described in ISO 5269-2 and ISO 5269-3. The oven-dry grammage of high-grammage sheets is 140 g/m^2, with a tolerance of 3 % using the conventional and the Rapid Köthen sheet formers, except for the z-directional tensile strength where the grammage is ≥90 g/m^2.

This document refers to the relevant International Standards for paper and board for the description and calibration of the required equipment, and for the calculation and reporting of results. This document, however, specifies the procedures for testing laboratory sheets where the amount of material is limited, compared to testing of paper and board to which the relevant International Standards referred to are applicable, and for that reason there can be a discrepancy in the procedures.