

# DIN EN ISO 5270:2022-12 (E)

## Pulps - Laboratory sheets - Determination of physical properties (ISO 5270:2022)

| <b>Contents</b>   | <b>Page</b> |
|---|-------------|
| European foreword .....   | 3           |
| Foreword.....   | 4           |
| Introduction.....   | 5           |
| <b>1 Scope</b> .....  | <b>6</b>    |
| <b>2 Normative references</b> .....   | <b>6</b>    |
| <b>3 Terms and definitions</b> .....  | <b>7</b>    |
| <b>4 Principle</b> .....  | <b>7</b>    |
| <b>5 Apparatus</b> .....  | <b>7</b>    |
| <b>6 Trimmed laboratory sheets</b> .....  | <b>7</b>    |
| 6.1 Selection of laboratory sheets.....   | 7           |
| 6.2 Conditioning of laboratory sheets.....                                      | 7           |
| 6.3 Optical properties.....   | 8           |
| 6.4 Determination of grammage, bulking thickness and apparent bulk density..... | 8           |
| 6.5 Preparation of test pieces.....   | 9           |
| <b>7 Procedures for physical properties (low-grammage sheets)</b> .....         | <b>10</b>   |
| 7.1 General.....  | 10          |
| 7.2 Tensile properties.....   | 10          |
| 7.3 Tear index.....   | 10          |
| 7.4 Burst index.....  | 11          |
| 7.5 Air permeance.....  | 11          |
| 7.6 Folding endurance.....  | 11          |
| <b>8 Procedures for physical properties (high-grammage sheets)</b> .....        | <b>11</b>   |
| 8.1 General.....  | 11          |
| 8.2 Bending resistance index.....   | 11          |
| 8.3 Flat crush resistance index after laboratory fluting.....                   | 12          |
| 8.4 Ring crush resistance index.....  | 12          |
| 8.5 Short span compression index.....   | 12          |
| 8.6 Z-directional tensile strength.....   | 12          |
| <b>9 Test report</b> .....  | <b>12</b>   |
| <b>Bibliography</b> .....   | <b>14</b>   |