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Standard Specification for Newsprint Including Newsprint Manufactured from Recycled Fiber¹

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1. Scope

1.1 This specification covers virgin newsprint, recycled newsprint and recycled content newsprint.

2. Referenced Documents

2.1 ASTM Standards:

D 585 Practice for Sampling and Accepting a Single Lot of Paper, Paperboard, Fiberboard, and Related Products²

D 646 Test Method for Grammage of Paper and Paperboard (Mass per Unit Area)²

D 1030 Test Method for Fiber Analysis of Paper and Paperboard²

D 1968 Terminology Relating to Paper and Paper Products²

2.2 TAPPI Test Methods:

T 401 Fiber Analysis of Paper and Paperboard³

T 410 Grammage of Paper and Paperboard (Mass per Unit Area)³

T 555 Roughness of Paper and Paperboard (Print-Surf Method)³

2.3 ISO Standards:

ISO 2469 Paper, Board and Pulps-Measurement of Diffuse Reflectance Factor⁴

ISO 2470 Paper and Board-Measurement of Diffuse Blue Reflectance Factor (ISO Brightness)⁴

2.4 Harmonized Tariff and Other Documents:

Harmonized Tariff Schedule of the United States, Chapter 48.5 (1991)⁵

ANSI MH10 American Standard Specifications for Bar Code Symbols on Transport Packages and Unit Loads⁶

3. Terminology

3.1 Definitions:

¹ This specification is under the jurisdiction of ASTM Committee D-6 on Paper and Paper Products and is the direct responsibility of Subcommittee D06.60 on Newsprint/Paperboard.

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² Annual Book of ASTM Standards, Vol 15.09.

³ Available from the Technical Association of the Pulp and Paper Industry, 15 Technology Parkway, Norcross, GA 30092.

⁴ International Organization for Standardization, Case Postale 56, CH-1211 Geneve 20, Switzerland.

⁵ International Trade Commission Publication #2333, Harmonized Tariff Schedule of the United States, U.S. Government Printing Office, Washington, DC 20403-0001.

⁶ American National Standards Institute (ANSI), Publications, 11 West 42nd St., New York, NY 10036.

3.1.1 *newsprint, n*—uncoated paper of a kind used for the printing of newspapers, of which not less than 65 % by weight of the total fiber content consists of wood fibers obtained by a mechanical or chemi-mechanical process, unsized or very lightly sized, having a surface roughness Parker Print-Surf (1 MPa) on each side exceeding 2.5 μm (microns), weighing not less than 40 g/m² and not more than 65 g/m².

3.1.1.1 *Discussion*—The definition conforms with the Harmonized Tariff Schedule of the United States (1996).⁵ At the same time, there is a clear trend in the market to produce newsprint at lower basis weights than 40 g/m². This has been recognized by the addition of 8.4.

4. Classification

4.1 The newsprint shall be classified as follows:

4.1.1 Basis weight/grammage.

4.2 *Style*—Style I, roll.

Style II, sheet.

5. Ordering Information

5.1 The newsprint shall be ordered as agreed between buyer and seller, and may include but not be limited to, the following:

5.1.1 Basis weight/grammage,

5.1.2 Roll diameter,

5.1.3 Roll width,

5.1.4 Core size,

5.1.5 Core type,

5.1.6 Core/special requirements; returnable, or non-returnable,

5.1.7 Sheet size, and

5.1.8 Packaging requirements.

6. Composition

6.1 The fiber content, recycled fiber content, or both, are to be as agreed upon between the buyer and seller.

6.2 *Fiber Composition*—not less than 65 % by weight of the total fiber content shall consist of wood fibers originally obtained by a mechanical or chemi-mechanical process.

7. Physical Requirements

7.1 *Roughness*—The surface roughness values on each side, measured by Parker Print Surf, (1 MPa), must exceed 2.5 μm (microns).

7.2 *Grammage*—The sheet shall not weigh less than 40 g/m² and not more than 65 g/m².



8. General Requirements

8.1 *Workmanship*—The newsprint shall be manufactured in accordance with customary and reasonable industry practices.

8.2 *Brightness*—When required, the brightness level shall be agreed between the buyer and the seller.

8.3 Refer to Section 5, Ordering Information, and 5.1-5.1.8.

8.4 *Basis Weight*—The basis weight shall conform to the Harmonized Tariff Schedule of the United States (1996)⁵ unless otherwise agreed between buyer and seller.

9. Bid Samples

9.1 When requested, the bidder shall submit a representative sample for testing purposes. The size and form of the sample (rolls, reams or sheets) shall be as agreed upon by the buyer and seller. All weights to be stated in pounds, kilograms, or both.

10. Sampling and Testing

10.1 Sample the lot in accordance with Practice D 585 with the measurement unit being 25 selected packages or rolls unless otherwise agreed by the buyer and seller.

10.2 Perform tests in accordance with the test methods provided in Section 2, as appropriate.

11. Inspection and Delivery

11.1 When a random sample is obtained at point of delivery, it shall be selected and tested in accordance with Section 10.

12. Rejection and Rehearing

12.1 If samples selected in accordance with 10.1 fail to meet the bid award specifications, the entire shipment may be subject to rejection, and the seller shall be notified immediately. Further procedure is subject to prior agreement between the buyer and the seller.

13. Packaging, Marking and Shipping

13.1 Newsprint rolls and sheets shall be packaged using equipment of the type, size, and kind commonly used for the

purpose, and in a manner that provides acceptance by the carrier for safe delivery to the point of destination.

13.2 Mode of transportation shall be as agreed between buyer and seller.

13.3 Each newsprint package shall have one or more labels as agreed to by buyer and seller.

13.4 Roll labels(s) may be affixed to the face of the roll or on the end, or both.

13.5 Each package of newsprint sheet shall have one or more labels as agreed to by buyer and seller.

13.6 Package labels may be affixed to the carton face or end, or both.

13.6.1 Name of manufacturer.

13.6.2 Roll number.

13.6.3 Package number.

13.6.4 Roll size.

13.6.5 Roll diameter.

13.6.6 Roll weight.

13.6.7 Package contents; number of reams or sheets.

13.6.8 Basis weight/grammage.

13.6.9 Grade.

13.6.10 Color.

13.7 Recycled content newsprint may be so labeled or otherwise documented.

14. Bar Coding

14.1 Each label may include a bar code based upon the 3-of-9 alphanumeric bar code guidelines as specified by “American Standard Specifications for Bar Code Symbols on Transport Packages and Unit Loads,” ANSI MH 10.⁶

14.2 Suggested formats for designing and developing roll numbers for rolls and packages of paper and paperboard can be found in TAPPI TIP 1004-01.³

15. Keywords

15.1 newsprint; recycled fiber; recycled paper; recycled content paper

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