

Use information: This paragraph is informational only and is not exclusively definitive of the end use.

For multicolor face and back offset printing of books, pamphlets, manuals, etc., requiring water-resistant properties. Printed matter may include text, line illustrations, and halftones up to 150-line screen. Not suitable for halftone production by letterpress printing.

Stock: Groundwood or unbleached chemical pulp, singly or mixed, not to exceed 5 pct; the remainder bleached chemical pulp. The use of melamine-formaldehyde or any material that releases formaldehyde into the atmosphere at concentration of 0.1 ppm or greater shall not be permitted in the manufacture of this paper.

*Note:*¹ Postconsumer fiber, not less than 30 pct. Any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.

Acidity: pH value by cold extraction shall be not less than 4.7.

Grammage (g/m²) 90
 Basis weight: 25 by 38 inches, 500 sheets (pounds) 60
 A tolerance of ±5 pct shall be allowed.

Bursting strength: Average, not less than—
 Dry (kPa) 210
 Wet (kPa) 90
 Equivalent—
 Dry (lb/in²) 30
 Wet (lb/in²) 13

Opacity: Average, not less than (percent) 90
 No individual specimen shall average less than (percent) 88

Thickness: Average (mm) 0.105
 Equivalent (inch) 0.0041

A tolerance of ±0.013 mm (0.0005 inch) shall be allowed. Paper shall be uniform and shall not vary more than 0.011 mm (0.0004 inch) from one edge to the other.

Water resistance: Average, not less than (seconds) 60

Smoothness: Average, each side (units) 110 to 60

Blocking: Sheets shall not stick together after being wet with water and then allowed to dry in contact with other sheets of the same paper.

General appearance: Paper shall conform to the standard sample(s) adopted by the Government.

Color: The paper in the order (or publication) shall be uniform with a target brightness of 72 pct ±2 pct or as specified. The color variation shall not exceed DE(CIELAB)=1.0.

Formation: Shall be uniform.

Cleanliness: The dirt count for each side of the paper shall not exceed 250 specks per square meter. No sample sheet (600 to 650 cm² in size) shall contain more than one defect with an equivalent area of 0.25 mm² or greater.

Sampling and testing: Shall be conducted in accordance with standards in Part 2, *Government Paper Specification Standards*.

Unless otherwise specified, the following is automatically waived when printing or duplicating is to be accomplished on commercial contract

Sizing: Paper shall be surface- and internal-sized suitable for satisfactory printing on both sides of the paper on high-speed offset presses equipped with continuous flow or brush dampening systems.

Pick resistance: Average, each side, not less than 13—A Dennison wax number.
 No individual specimen shall average less than 11—A Dennison wax number.

Color: Shall match the Government's standard sample for color. A deviation of DE(CIELAB)=3.0 from the color standard is allowed.

For information only, the CIELAB values (Ill D65, 10° observer) of the color standard are

$L^*=93.0$
 $a^*=-0.5$
 $b^*=7.5$

Curl: Paper shall lie flat with either no tendency to curl or with a curl which can be overcome under reasonable working conditions.

Surface: Shall be free from lint, fuzz, or any particles which will pick, lift, fluff, or pile on the blanket under normal press conditions.

Size and trim: Sheets: Paper shall be furnished in the size(s) ordered and shall be flat, trimmed square on four sides with clean smooth edges, and evenly jogged. A tolerance of ±2 mm (1/16 inch) shall be allowed except for sheets 216 by 356 mm (8 1/2 by 14 inches) or less; then a tolerance of ±1 mm (1/32 inch) shall be allowed. Successive sheets within any package shall not differ from each other by more than 0.5 mm (1/64 inch). Paper with the long dimension 813 mm (32 inches) or less shall be considered square if the variation does not exceed 1 mm (1/32 inch); over 813 mm (32 inches), 2 mm (1/16 inch).

Grain: Direction of the grain on flat paper shall be as ordered.

Pressroom conditions: The bulk of this paper will be used in air-conditioned pressrooms maintained at 24°C ±2°C and 45 pct ±8 pct relative humidity.

¹This requirement may be waived by the ordering agency when purchasing less than a mill run quantity and so stated in the procurement document.