

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

For face and back offset printing. To be used on an optical scanner.

Stock: 100 pct bleached chemical pulp.

No fluorescent (optical) brighteners shall be added to the pulp or paper during manufacture. Fluorescence, due to residual white water, broke, or natural fibers, is permissible, provided the increase in reflectance, measured with and without the ultraviolet component of a light source of 3100 kelvin in combination with a C.I.E. (International Commission on Illumination) Z (blue) filter, does not exceed 2.0 pct.

*Note:*¹ *Postconsumer fiber, in any percentage, is encouraged, provided that the requirements of this Standard are met.*

Moisture content: Average (percent) 5.5
 A tolerance of ±0.3 percentage points shall be allowed.

Dimensional stability: Shall not exceed—
 Machine direction (percent) 0.10
 Cross direction (percent) 0.25
Note: Percent change is based on difference in relative humidity.

Acidity: pH value shall average not less than 5.0.

Grammage (g/m²) 90
 Basis weight: 17 by 22 inches, 500 sheets (pounds) 24
 A tolerance of ±5 pct shall be allowed.

Stiffness: Gurley, average, not less than—
 Machine direction (milligrams) 200
 Cross direction (milligrams) 100

OR

Taber, average, not less than—
 Machine direction (units) 3.7
 Cross direction (units) 1.8

Bursting strength: Average, not less than (kPa) 130
 Equivalent (lb/in²) 19

Tearing strength: Average, each direction, not less than (mN) 630
 Equivalent (grams) 65

Pick resistance: Average, each side, not less than 12—A Dennison wax number.

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

Thickness: Average (mm) 0.112
 Equivalent (inch) 0.0044

A tolerance of ±0.005 mm (0.0002 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.

Porosity: Average (seconds) 15 to 45

Smoothness: Average, each side (units) 200 to 100

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 81 pct. The color variation shall not exceed DE(CIELAB)=1.0. The reflectance in the 700 to 1,000 nanometer region shall average not less than 70 pct when measured with the Moore Model 082A, MacBeth PCM-II, or equivalent tester.

Finish and formation: Shall be uniform.

Cleanliness: The dirt count for each side of the paper shall not exceed 10 parts per million (ppm). 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*. The precision requirements of the acceptance criteria (Part 4) shall apply for all properties.

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.

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

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 dimensions 32 inches (813 mm) 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.

¹For technological reasons, this grade currently may not be readily and/or economically available with postconsumer fiber content.