

**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 as specified.

**Stock:** 100 pct 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:*<sup>1</sup> Postconsumer fiber, in any percentage, is encouraged, provided that the requirements of this Standard are met.

**Acidity:** pH value shall average not less than 4.5.

	<u>Bond</u>	<u>Bond</u>	<u>Bond</u>	<u>Ledger</u>	<u>Ledger</u>
<b>Grammage</b> (g/m <sup>2</sup> ) .....	60	68	75	90	120
Basis weight: 17 by 22 inches, 500 sheets (pounds) .....	16	18	20	24	32
A tolerance of ±5 pct shall be allowed.					
<b>Stiffness:</b> Average, each direction, not less than (milligrams) .....	30	40	50	100	200
<b>Tearing strength:</b> Average, each direction, not less than (mN) .....	290	340	390	500	590
Equivalent (grams) ....	30	35	40	50	60
<b>Opacity:</b> Average, not less than (percent) .....	78	80	82	85	90
No individual specimen shall average less than (percent) .....	76	78	80	83	88

	<u>Bond</u>	<u>Bond</u>	<u>Bond</u>	<u>Ledger</u>	<u>Ledger</u>
<b>Thickness:</b>					
Average (mm) .....	0.075	0.085	0.095	0.120	0.155
Equivalent (inch) .....	0.0030	0.0033	0.037	0.0047	0.0061
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.					
<b>Porosity:</b> Average, not less than (seconds) .....	10	10	10	10	15
<b>Smoothness:</b> Average, each side (units) .....	170	170	170	170	170
	to	to	to	to	to
	100	100	100	100	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.

**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 cm<sup>2</sup> in size) shall contain more than one defect with an equivalent area of 0.25 mm<sup>2</sup> 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 for sheet sizes exceeding 432 by 559 mm (17 by 22 inches); 10-A Dennison wax number for sheet sizes 432 by 559 mm (17 by 22 inches) or less or for web offset.

No individual specimen shall average less than 11-A and 8-A Dennison wax number, respectively.

**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).

**Rolls:** Roll width and diameter shall be as ordered. A tolerance of ±2 mm (1/16 inch) shall be allowed for width and ±26 mm (1 inch) for diameter.

**Roll winding:** Roll paper shall be tightly wound at even tension and shall not contain more than the specified maximum number of splices per roll. The number of splices permitted per roll is determined by the roll diameter as ordered. On rolls 1,016 mm (40 inches) or less, a maximum of three splices per roll shall be allowed. On rolls over 1,016 mm (40 inches), a maximum of four splices per roll shall be allowed. Splices shall be neatly and securely overlap-pasted and made with a repulpable adhesive which will not permit the splice to separate. The adhesive may be applied from a tape form backing, provided the backing is removed, leaving only the adhesive component on the splice. The adhesive shall not cause the splice to adhere to adjacent laps. The tails of the splices shall be neatly and evenly removed without damage to adjacent laps. Splices shall be flagged at both ends with projecting colored markers, not pasted to the splice, or otherwise clearly marked.

**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.

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