

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

For simultaneous face and back, web offset printing of books, pamphlets, catalogs, folders, circulars, etc., the 75 g/m<sup>2</sup> or heavier papers, may be used for solid reverses or heavy halftones. Printed matter may include text, line illustrations and halftones up to 150-line screen. Slitting and pasting and/or cross perforating are included in press capabilities.

**Stock:** Groundwood pulp, not to exceed 1 pct. The total lignin content of the paper shall not exceed 3 pct of the fiber weight.

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

**Acidity:** pH value shall average not less than 6.5.

<b>Grammage</b> (g/m <sup>2</sup> ) .....	60	75	90	105	120
Basis weight: 25 by 38 inches, 500 sheets (pounds) .....	40	50	60	70	80
A tolerance of ±5 pct shall be allowed.					

<b>Bursting strength:</b> Average, not less than (kPa) .....	90	100	120	150	170
Equivalent (lb/in <sup>2</sup> ) .....	13	15	18	22	25

<b>Opacity:</b> Average, not less than (percent) .....	86	89	91	92	94
No individual specimen shall average less than (percent) .....	84	87	89	90	92

<b>Thickness:</b> Average (mm) .....	0.075	0.100	0.120	0.140	0.160
Equivalent (inch) .....	0.0030	0.0039	0.0047	0.0055	0.0063

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.

**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 650 specks per square meter. 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 heat-set web offset presses equipped with continuous flow or brush dampening systems.

<b>Tensile strength:</b> Average, not less than—					
Machine direction (kN/m) .....	2.5	3.5	3.8	4.1	4.5
Cross direction (kN/m) .....	1.2	1.4	1.6	1.8	2.0
Equivalent—					
Machine direction (kg/in) .....	6.4	9.0	9.7	10.5	11.5
Cross direction (kg/in) .....	3.1	3.6	4.1	4.6	5.1

**Color:** Shall match the Government's standard sample for color. A deviation of DE(CIELAB)=0.5 from the color standard is allowed.

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

$$L^*=93.3$$

$$a^*=1.0$$

$$b^*=-2.0$$

**Pick resistance:** Average, each side, not less than 10—A Dennison wax number.

No individual specimen shall average less than 8—A Dennison wax number.

**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:** Rolls: Roll width and diameter shall be as ordered. A tolerance of ±2 mm (3/16 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 while passing through a drying oven maintained at 200 °C. 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.

**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.