

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

For multicolor face and back offset printing of manuals, maps, tags, outdoor billboards, etc., requiring a high degree of tear including resistance to action of water, mild aqueous solutions, grease, oils, extreme climatic temperatures, frequent handling, and discoloration. Printed material may include text, line illustrations, and halftones up to 175-line screen.

Stock: Shall be a non-cellulose substrate.

Note: Recovered material, in any percentage, is encouraged, provided that the requirements of this Standard are met.

Caliper: Nominal (mils) 4.0 5.5 7.0 8.5
A tolerance of ±0.0005 shall be allowed. The film shall be uniform and shall not vary more than 0.0002 inch from one edge to the other.

Folding endurance: Average, each direction, not less than (MIT double folds) 4,000

Aged film: Average, each direction, not less than (MIT double fold) 50% of the unaged or 4,000

Opacity: Average, not less than (percent) 90.0 92.0 94.0 96.0

Surface: The film shall not flake, powder, crack, blister, or otherwise deteriorate under printing or other normal

Testing: Shall be conducted in accordance with methods in part 2, *Government Paper Specification Standards*. The acceptance criteria Part 4 does not apply.

Qualified Products: All products shall conform to the above specification requirements. In order for a brand name to be included in the Qualified Products List (QPL) below, it must have been qualified prior to the issuance of the specification. The brand name product shall meet all specification requirements for qualification. For qualification testing/evaluation, the sample set described below in the *sample requirement* paragraph is required.

Awards will be predicated on the use of a product listed below or on a product, which prior to the time set for opening of bids, has been tested and approved. Once the product is accepted for the QPL, it need not be retested for a 3-year period unless the brand name (product) characteristics have been changed.

The following brand name products are on the QPL for this grade

- PPG Teslin ® SP (www.teslin.com)
- Arjobex Polyart ® (www.polyart.com)
- YUPO ® (www.yupo.com)
- AET SynCarta (tm) SLC (www.syncarta.com)
- HOP-SYN ® II DURA-LITE (www.hopindustries.com)

Sample Requirement: Bidder shall submit 25 pieces, 8-1/2 by 11 inches or equivalent for testing and evaluation. The sample shall include an original signed and dated covering document with the following information: (A) JCP code, (B) Marked as *QPL samples*, (C) Brand name and specific product identification number and (D) Product data sheet showing the typical properties of the product.

handling conditions, shall not discolor, become brittle, or be subject to attack by mold, mildew, or fungus under normal conditions, and shall be uniformed, free from mottle, and from any particles that will pick, lift, fluff, or pile on use under normal conditions.

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

Brightness: Shall be not less than 88%

Color: Shall be white. The film in the order (or publication) shall be uniform. The color variation shall not exceed DE(CIELAB)=1.0.

Aged film: The L* component of the color shall not decrease more than 3 percentage points.

Finish: Shall be matte. The nominal gloss (75 degrees) shall not exceed 25 percent.

Cleanliness: Film shall be clean.