

Bid List 0686

SPECIFICATION FOR PLATES, PRECOATED ADDITIVE

Property Numbers: 174777
243132
243141
243167
248363

Property No. 243132

General Requirements

These precoated additive plates shall be suitable for printing line, solids, and up to 150 line halftones by the offset lithographic process on either coated or uncoated papers. The base metal shall be 1100 or 3003 alloy aluminum litho sheet. The coated side shall have been mechanically or chemically textured and subsequently anodized.

Precoated plates which are used on web presses can have the mill grain when mounted on the plate cylinder of the press in "around or across-the-cylinder" direction. Precoated plates for sheet-fed presses will have their mill grain in an "across-the-cylinder" direction. The specified plate thickness is expected to be uniform across the entire plate.

Specific Requirements

Size: 1283 mm x 953 mm x 0.30 mm (50-1/2" x 37-1/2" x 0.012")

A tolerance of ± 2.0 -mm (0.079") will be allowed in the length and width dimensions. A tolerance of ± 0.025 mm (0.001") will be allowed in the thickness dimension, provided the thickness is uniform.

Mill grain direction: across or around the cylinder (web press)

The precoated plates are expected to be coated with a diazo type coating which, after exposure, is capable of being manually or mechanically processed with GPO's plate processor. The required time for exposing the precoated plates in a vacuum frame shall be no more than one minute to produce a solid six on the gray scale. There shall be no more variation than ± 1 second in exposure time per plate in each skid.

After exposure and development, the image areas when printing shall accept ink uniformly and the background areas shall be free from tint, toning, or scum throughout the run. Lacquer spots remaining in the non-printing areas after development that cause serious production delays shall be considered cause for rejection of the plates. The shelf life of the plate shall be one year from receipt when stored in a dry area having temperature ranges of 15.6°C to 26.7°C (60°F to 80°F).

The metal surface of the plates on the printing side shall be free from scratches, flaws, and mill marks which will interfere with the smooth, uniform printing of solids and flat tints. The plates after development shall be capable of reproducing at least 50,000 clear copies in one continuous duplicating or printing run or series of runs without distortion or other failure, which impairs legibility.

The plate shall be cut square so as to pass the following test. Obtain two random samples and allow them to become conditioned at room temperature of 22.2°C \pm 1.7°C (72°F \pm 3°F). Lay the two plates one on top of the other. Align or square the corners and sides, and visually check for evenness. Turn the top plate over, from left to right, end over end, so that the corners of the top plate are opposite to their original position in relation to the

bottom plate. Square up or even the corners and sides at one end of the two plates, then visually examine the corners at the other end of the plate. If the plates are "square" all corners and sides will match perfectly.

Packaging Requirement

The plates shall be packed in a wooden container with runners attached having sufficient strength to bear the weight of the plates and to be moved by a skid lift. There shall be a separation of one sheet of clean, chemically inert paper between each textured surface, which shall leave no deposits on the plate surface that could impair printability. The interleaving paper shall be sufficient size so as to properly protect the complete plate surface.

In addition, each skid is required to be marked with a label giving the date when coated and the batch code number of the coating for identification purposes should problems arise. This is to be done to avoid any unnecessary opening of skids when problems and defects concerning the plates occur. Also, this identification will ensure that plates placed in storage will be used in a timely manner.

Sample Requirement

Six plates, size (47-1/4" x 59" x 0.012") to test the speed of the coating and compatibility with the processor and developer. That is the size plating most used for critical applications. GPO may, at its option, purchase additional plates for testing.

Qualified Products

Precision Ball Graining CASX-P/S
Citiplate S-300
Citiplate - BP-25