



Conventional PS Positive plate



Our plate factory is located at Beijing, 40 kilometers far from city center. There are one 15m/min PS plate coil line and one 10m/min sheet-fed & coil-fed combined PS plate production line. The productivity is annual 4,000,000 square meters. We have passed the ISO9001 international quality system, certification and "JAS-ANZ" Australia-New Zealand united quality certification since Jul, 2000. Our printing plate was used to newspaper printing house and senior printing workshop.

Features

1. Stable performance
2. High sensitivity and resolution
3. Strong alkali resistance
4. Good abrasive resistance
5. Wide exposure and developing latitude
6. Exquisite electrolyzed grain
7. Quick inking
8. Excellent dot reproduction ability

Technical Parameters

High-quality AL plate for special purpose, Multi-layer ultra fine-grain, even coating. It is available for printing on newspaper printing and superior color printing.

Characteristics:

Recommended exposure unit: 20~30

Suitable printing speed: over 75,000 iph

Substrate: Litho-grade aluminum, electrochemically grained and anodized

Gauge: 0.15&0.25&0.30 mm

Safe Light: Yellow

Exposure

Light source: iodine-gallium lamp is used as the exposure light source. Exposure time is depended on light source, the recommended exposure in the table is only a given range. We suggest that you should replace the light tube when the exposure time is 20% longer than normal exposure time.

Light source: 3KW iodine-Gallium lamp, distance 1m

Film:

To ensure the high exposure quality, it is suggested that the density of the film should be >3.5_{0C} when exposing the plate with the film.

Exposure time: Put the 21 step-gray scale (0.15 step difference) or UGRA PCW82 control strip at the bottom of the film and the edge of the plate; select the correct exposure and developing according to the recommended condition. The optimum exposure of positive plate can be obtained when the third step of gray scale is clear after exposure and development, and the optimum exposure of negative plate can be obtained when the ninth step of gray scale is clear after exposure and development, or when the 15-20 μ m line appears on the control strip.

Developing

Preparation of developing solution: Our own PD developer (concentrated): water=1:5

Developing temperature: 23 $^{\circ}$ C+2 $^{\circ}$ C, if temperature is too high, it will influence dot reproduction and press life, if the temperature is too low, it can't develop completely.

Developing time: Less than one minute



Retouching

To remove unnecessary image or stains after developing, apply a brush with a little erasing solution to the image area, let remover stay less than 4 seconds, then rinse thoroughly with water. If remover stays there for a longer time or rinse is not thorough, the plate will be contaminated.

Gumming

Gum the plate surface evenly to form a protection layer after developing and rinsing. The concentration and the volume follow the manufacturer's recommendation. Higher concentration or excessive volume of gum solution will influence the printing quality.

Baking

Baking solution: high-grade baking solution is a necessary option..

Baking time: 5~10 minutes. Baking temperature: 220~240 oC

Baking conditions are strictly recommended above, shorter baking time or lower baking temperature cannot reach the baking results. Longer time or higher temperature will influence the printing quality. Baking result cannot be evaluated only by the color changed on the PS plate.

Storage and Unpacking

- 1) Coating layer can be changed chemically by light and heat, so the recommended storage conditions are as follows:
Temperature at 10~30 oC and humidity < 65%
- 2) Unpacking the outer package should be in yellow light; the recommended plate-making room light should avoid natural light. All light should be yellow light except for exposure light.
- 3) Plates should be handled carefully to prevent from collision, heavy pressing and knock. Avoiding striking, folding and falling.
- 4) The height of stacked plates should be less than 1.5 meters.

Guarantee Period

18 months under above recommended storage condition.

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