P E G

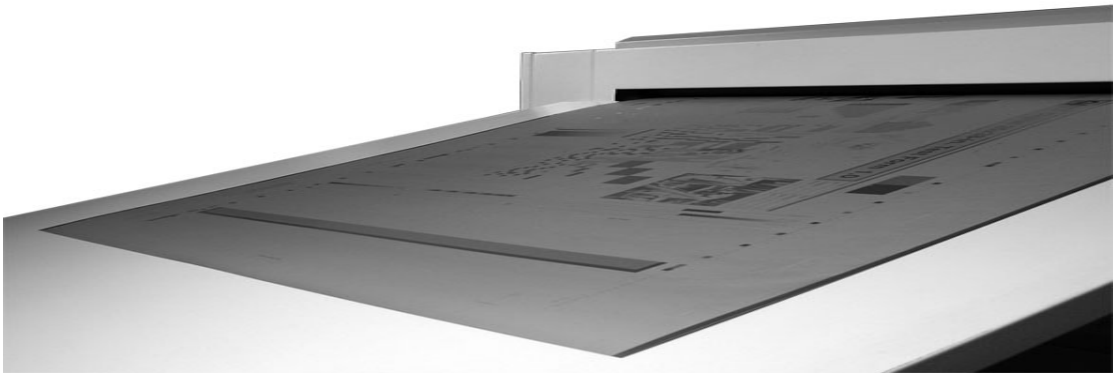
Thermal Positive CTP Plate

ANHUI PHOENIX PLATE TECHNOLOGY CO.LTD
www.phoenix-ps.com
Headquarters
Hongyingtao industrial Zone
Sanshitou Town. Hefei City,
Anhui Province. China
Tel: (86) 551-6337777
Fax: (86) 551-6333700
Factory

PEG Thermal Posi t ive CTP Plate

Phoeneagle Thermal CTP Plate (**PEG**) is designed to meet the needs of sheet-fed and web printing – consistency, cost-effective, easy-to-use and quality. This positive acting plate for 830nm CTP systems provides excellent imaging qualities and reliable printing behaviors.

Consistency Computerized equipments on production lines monitor over 50 production parameters to ensure batch-to-batch consistency;
Cost-effective Fast exposure speed without pre-heating. Long run-length;
Easy-to-use Process under convenient daylight; Wide latitude and excellent reliability;
Quality High resolution, rich tone, and quick ink-water balance.



Specifications

* Run length is always dependent on exposure, processing and press conditions.
Model PEG
Application Commercial Printing
Gauges 0.15 - 0.30mm
Type Infrared sensitive, positive acting
Substrate Electro-chemical grained, anodized and sealing treated Aluminium

Main Features

Easy-to-Use

1. Able to work under white light;
2. No need to pre-heat.

High Resolution

Special ingredients, together with the optimally distributed formula weight of binding polymers, in the coating of KTP offer fine dots with sharp edges and

reproduce images with rich tone.

Excellent Hydrophilicity

Hydrophilic Treatment

Post Anodizing Treatment (**PAT** Pic3) provides excellent water retaining capability at the non-image area and prevents scumming.

Multi-Grains

Multi-Grains structure (Pic1 to Pic3) improves water retaining capability and keeps ink-water balance optimally.

Working Principle

♉ Marco-molecules are formed by cross-linked micro-molecules during the oven drying procedure of plate production.
(A) Thermal sensitive coating with IR-Absorber;
(B) Hydrophilic layer formed by sealing treatment;
(C) Electrochemically grained and anodized Aluminium.
♉ Infrared Laser exposures the non-image area. The IR-Absorber in the thermal sensitive coating converts light to heat and breaks the cross-linked structure.
♉ The deformation of macro-molecules at the non-image area makes the coating alkaline soluble (Developer)
♉ Image area remains insoluble to the developer.

Guidelines

Storage

1. Store under Dry (relative humidity no more than 65%) and Cool (10-30℃) conditions. Keep away from chemicals.
2. Shelf life : 18 months

Exposure

Apply on thermal CTP Plate setters with following specifications:
Exposure Energy : approx. 160mj/cm²
Spectral Sensitivity : 800 - 850nm, peak sensitivity at 830nm
Resolution : up to 1-99% 200lpi / 20μ FM

Development

To achieve the optimum performance of the plate, please use Phoeneagle PE-T Thermal CTP Plate Developer.

Deletion : KM-7 (Gel), KM-1 & KM-2 (Pen)

To remove the unwanted image on non-image area, you can use **Image remover gel KM-7** or **Deletion Pen KM-1, KM-2**. Apply the image
remover on the dry plate for about 10 seconds and wipe off the residue. The residue on the plate will decrease the run-length. Using Konita
Deletion Pen will minimize the side effects to the plate.

Finishing : KG-2, KG-2S

To increase the hydrophilicity of the non-image area and prevent the plate from fingerprint and other contamination, you should use gum solution
（**KG-2** or **KG-2S**, 8%-11% made by **Gum Arabic**）immediately after image removing. Wipe the gum solution on the developed plate and dry it.
Gum solutions made by synthetic polymer are difficult to wash away before printing and result in poor roll-up performance.

Baking : KB-3

Remove unwanted image from plate with Deletion Pen, wipe the plate with bake solution (**KB-3**) and heated at 220℃ for 10 minutes. Before
printing, treat the baked plate with developer for 30 seconds, wash with water thoroughly and then gumming.