

Original Bungard

Negativ Fotocoated Boards

Instructions for Use

Preparation

Our photo-negative coated base material should only be used in damped daylight or under special yellow light.

Exposure

Exposure can be done with all devices, that emit sufficient UV light with a waveband around 450 nm. The correct exposure time influences significantly the contour representation. Therefore, it should be accurately determined by tests.

With our vacuum exposure unit HELLAS it amounts to approximately 25s. After the exposure the polymer resists should change colour to a blue hue. The clear polyester film located on the resist should always stay on the resist, if you fear that the layout could stick to the resist because of high temperatures inside of the exposing unit. The maximum line resolution is reduced, however, from less than 100 microns to more than 150 microns with the protection foil remaining on the resist.

Before developing the polyester film must always be removed.

Developing

Resolve 10 g of our special Negative Developer in 1 litre of warm water. You can store the developer in a closed, clearly marked container.

Spraydeveloping, for example with our Splash machine, is recommended. With the Splash the development period is about 30 seconds at 40°C.

If no machine is available for development, pour the 40°C hot developer in a bowl and support the process with a (bristles) brush.

If you cover a test field at the rim of the layout with e.g. a black tape during exposure, you can check, whether the development was complete. Resist residues leave behind a grey, sticky coating on the copper.

Before etching rinse thoroughly with cold water.

Etching

The resist is fully resistant against all common etching agents. However we recommend as etching agent, specifically Iron(III)-Chloride. After the etching you can strip of the resist with our special Fotoresiststripper

Storage

Store the material cool, dark, dry and vertically standing. The storage capacity is about 6 months at adequate storage.

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