

IDEALINE CPF2

Technical Information

Idealine CPF2 is a clear U.V.-sensitive contact film.

The film can be used for making working copies for printed circuits as well as for any other reprographic application.

The film can be handled safely in yellow light.

They yield excellent results in Idealine (hybrid) or in rapid access processing.

Thickness of the polyester base: 0.175 mm (.007").

■ Applications

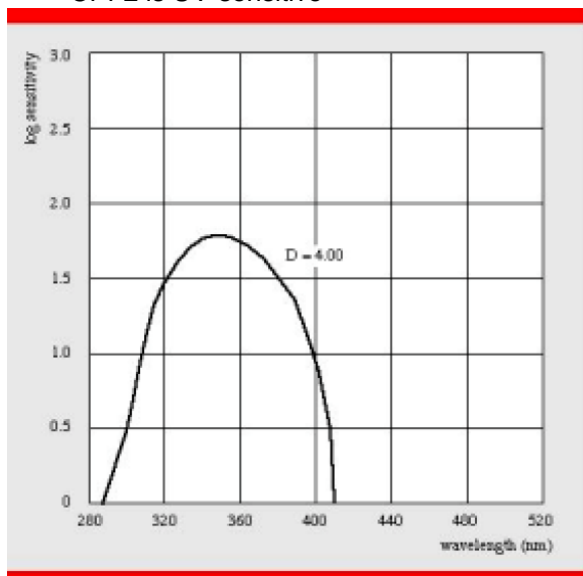
The films are used for high quality work in the PCB industry, chemical milling and for cartographic and industrial applications with high demands for image quality, scratch resistance and dimensional stability.

■ Characteristics

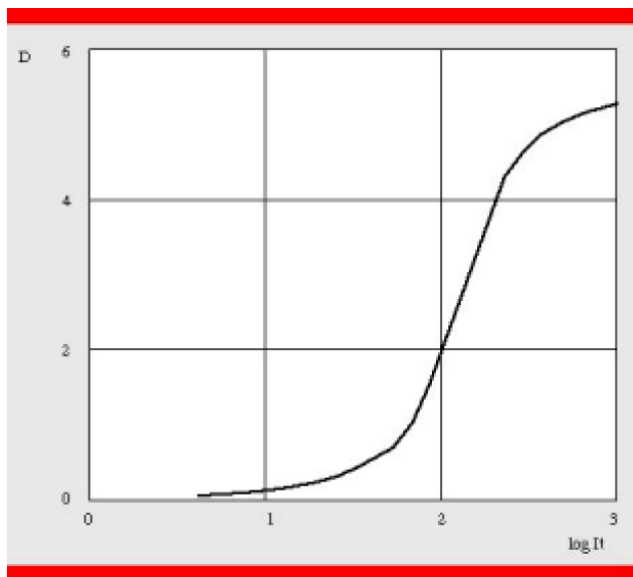
- Excellent line sharpness
- High resolution
- Good dimensional stability
- Wide exposure and development latitude results in well controllable line widths
- High scratch resistance
- Clear visual distinction between emulsion and back of the film
- Consistent quality
- Optimal film transport and vacuum performance
- Stable chemistry and low consumption

■ Photographic data

- Colour sensitivity :
CPF2 is UV-sensitive



- Characteristic curve



■ Storage

Non-processed photographic film has a limited shelf life. Unopened boxes can be safely kept until the expiry date mentioned on the label. Film boxes are preferably kept flat, at a temperature of 21 °C and at 50% relative humidity. Temperature and relative humidity in the storage room must be kept within strict tolerances to avoid dimensional changes.

Remove the outer packaging and the shrink foil before taking the film into the cleanroom.

■ Production guidelines

Workroom lighting

CPF2 can be safely handled in bright yellow light.

Exposure

Important

Proceed carefully in order not to damage the film. Take care that film sheets do not slide on top of each other. Do not apply strong local pressure on the film. Avoid dust contamination.

The material should preferably be exposed with a powerful U.V.-light source such as the Theimer TH 1007 metalhalide lamp. When exposure is carried out with a 1000 W TH 1007 lamp at half luminous intensity and at 85 cm distance, the exposure time is approx. 7 seconds.

Processing

Developers	Idealine Pdev or equivalent hybrid or rapid access developer
Developing time	30 - 35 s at 35 °C / 95 °F
Developer replenishment	250 ml/m ² or 0.8 oz/ft ² (50 % image blackness) + 2 l or 65 oz / 24hrs against oxidation
Fixer	Idealine Pfix or equivalent rapid fixers
Fixer replenishment	500 ml/m ² or 1.5 oz/ft ² without fixer electrolysis 125 ml/m ² or 0.4 oz/ft ² with fixer electrolysis (50% image blackness)
Wash	At 20 °C / 68 °F for optimum dimensional stability

■ Packaging

All Idealine films are supplied in special packaging for optimum protection during transportation and storage. The packaging is humidity tight for best dimensional stability results. A shrink foil protects the inner packaging against dust and scratches. With the selection of the packaging materials the possibility to recycle was taken in account. The amount of packaging material is reduced.



■ Dimensional stability

The combination of the polyester base with the Idealine emulsions ensures maximum dimensional stability. Your Agfa representative will be pleased to give you more information.

Thermal expansion coefficient	Relative humidity coefficient	
	Before processing	After processing
18 µm / m°C or 0.0018 % / °C 10 µm / m°F or 0.0010 % / °F	13 µm / m %RH or 0.0013% %RH	12 µm / m %RH or 0.0012% %RH

Subject to modifications without prior notice.
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