ENCODER RPF7 and OPF7 / OPF4

Technical Information

ENCODER RPF7 and OPF7 / OPF4 are specially developed films for fine line art applications for exposure in a photoplotter, a contact frame or a camera.
ENCODER RPF7 is a red-sensitive line film.
ENCODER OPF7 / OPF4 are green-blue-sensitive line films
Emulsions are coated on a 0.175 mm (0.007 inch) or a 0.100 mm (0.004 inch) thick, clear polyester base (PET) with permanent antistatic properties.

Applications

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

Characteristics

High photographic speed
High contrast (steep gradation and gradation toe)
Wide exposure and processing latitude
Low minimum density with excellent UV-transmission
High resolving power
High maximum density
Anti-static layer for dust-free handling
Low pinhole level in contact applications
Anti-stress layer to protect against scratches and abrasion
Special matte particles in the emulsion layer to prevent Newton rings

Example of 20 micron lines / spaces

Edge sharpness  = 0.5  μm
Edge straightness  = 0.7  μm
Line width variation  ± 0.25 μm
Photographic data

- Colour sensitivity:

ENCODER RPF7 is red-sensitive (630 – 670 nm)

ENCODER OPF7 OPF4 are green-blue-violet sensitive (400 – 545 nm)
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. Remove the outer packaging before taking the film into the working room, to avoid dust contamination of the clean room area.

Production guidelines

Workroom lighting
RPF7: Cyan (blue-green) safelight, e.g. EncapSulite T20/ND.75 filter.
OPF7 / OPF4: Red light, e.g. Agfa R6 or EncapSulite R20.

Exposure
The films are designed for exposure with a photoplotter, a camera or in a contact frame. The correct exposure will vary, depending on the exposure equipment and the processor used.

Processing
ENCODER films can be processed in rapid access or deep tank processors or eventually in tray.

Recommended processing conditions

| Developers | Idealine Pdev or equivalent rapid access or hybrid developers |
| Developing time | R.A. 30 s at 35°C / 95°F ; deep tank 60 s at 26°C / 79°F ; tray 90 s at 21°C / 70°F |
| Developer replenishment | 250 ml/m² or 0.8 oz/ft² (50 % image blackness) + 2 l or 65 oz / 24hrs against oxidation |
| Fixer | Idealine Pfix, or equivalent fixers at 30 - 33 °C / 86 – 91 °F |
| Fixer replenishment | 500 ml/m² or 1.5 oz/ft² without fixer electrolysis 125 ml/m² or 0.4 oz/ft² with fixer electrolysis (50% image blackness) |

Wash
20 °C

Packaging

All ENCODER films are supplied in special packaging for optimum protection during transportation and storage. With the selection of the packaging materials the possibility to recycle was taken in account. The amount of packaging material is reduced.