



TECHNICAL DATASHEET

Micro OL 1

Graphic Arts Film – Orthochromatic Line Film

Micro Photo Films Micro OL1 is a professional graphic arts film designed for camera copydot / halftone and line work.

Film is used in a safelight with a red filter while handling and processing the film.

Key Features

- Fine grain, high resolving power.
- High maximum density.
- Good reciprocity and latent image keeping characteristics.
- Dimensionally stable PET Base.
- High density contrast to eliminate cut lines.
- Produces sharp lines and crisp dots.



Applications

These films are used for high quality work in screen printing, offset printing, block making, brass plate etching, hologram making, polymer stamp making etc., producing crisp image quality.

Product Specifications

Model No.	Micro OL 1
Description	Graphic Arts Film
Base	Clear 100 micron PET Base
Safelight	Red safelight lamp (15 W Bulb)
Standard Packing	Roll*

Storage

Non-processed photographic film has a shelf life of three years. Unopened boxes can be safely kept until the shelf life mentioned on the label. Film boxes are preferably kept flat, at a temperature of 25-30°C and at 0-50% relative humidity. Temperature and relative humidity in the storage room must be kept within tolerances to avoid early aging and changes in dimension.

Roll Sizes (Standard)

Code	Width	Length**
Micro OL 1- 18	18 inch	200 ft (61m)
Micro OL 1 – 20	20 inch	200 ft (61m)
Micro OL 1 – 22	22 inch	200 ft (61m)

*Specific sized sheets available on request

** Shorter length rolls available on request





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Handling Guidelines

Workroom Environment

Use a safelight filter (red) in a suitable safelight lamp with a 15 - 20 watt bulb. Keep the safelight at least 1.2 metres (4 feet) from the film. Run tests to determine that safelight use will give acceptable results for your application.

Temperature and relative humidity must be kept within strict tolerances to avoid dimensional changes.

If the conditions in the workroom are different from the storage room, the film should be allowed to acclimatize before use.

Processing

1. Develop (with continuous agitation)

Developer (A & B Type)	Temperature	Time (seconds)
MicroLith / Pio Lith	25 °C (77 °F)	90

2. Fix (with frequent agitation)

Fixer	Temperature	Time (Seconds)
Standard fixer solution	25 °C (77 °F)	60 - 120

3. Wash

Wash at 25 °C (77 °F) in running water for 1 - 2 minutes

4. Drying

Dry in a dust free place at a maximum of 55 °C (131 °F)

Exposure

- Contact
Set a tungsten lamp (60 to 100 watts) at an approximate distance between 2 to 5 feet and the exposure time may be between 2 to 4 seconds from emulsion side.
- Camera Line
For a same size (1:1) line reproduction with two 1500 watt pulsed-xenon lamps in reflectors about 3 feet from the center of the copyboard, expose for about 60 seconds at f/16 aperture (exposure to emulsion).

Packaging

All Micro OL1 graphic arts films are supplied in special packaging for optimum protection during transportation and storage. The packaging is humidity tight for best dimensional stability results.

An outer foil protects the inner packaging against dust and scratches. With the selection of the packaging materials the possibility to recycle was taken in account.

