

CAPILLEX CP

Product Data Sheet

Controlled Profile Film for Fine Halftone Printing

PRODUCT DESCRIPTION

Capillex CP is a green capillary photostencil film specifically formulated for ultra fine halftone and line printing. Capillex CP will give a controlled stencil profile over a wide mesh range from 120/cm and finer. The low stencil profile and optimised Rz of Capillex CP gives superb dot reproduction and minimises skipping effects often seen when printing fine halftones with UV ink. Capillex CP can be used with conventional UV and solvent based inks.

FEATURES

- Very low stencil profile typically 2–3 μ
- Optimised stencil surface – low Rz
- Excellent mounting characteristics
- Fast exposing
- Easy washout
- High resolution
- Excellent print quality
- Very durable

TECHNICAL SPECIFICATION

Coating	Green, water soluble UV photo-sensitive emulsion
Photographic sensitivity	380 – 450 Nanometres
Mesh range	120 – 180/cm Target mesh count 150.31 plain weave
Stencil profile	120.31 = 2 - 3 microns 150.31 = 2 - 3 microns
Rz value @ 22.5°	Rz 120.31 = 6 – 7 microns 150.31 = 5 - 6 microns
Drying - prior to exposure	Maximum 40°C
Exposure time	5kw Metal Halide @1.2 metres = 3 mins
Washout	10 - 45°C water - strong spray recommended for fine detail work
Resolution	60 micron @ optimum exposure, 40 micron @ 0.5 optimum
Definition	Very good
Resistance	Excellent resistance to solvent based and UV curable inks
Decoating	Very easy



APPLICATIONS

Capillex CP is sold strictly for use in the screen printing industry as a capillary photo-stencil film.

WORKING INSTRUCTIONS & SAFE HANDLING

1. Prepare the mesh thoroughly.
2. Apply the film to the wet mesh and remove excess water with a squeegee.
3. Dry the screen thoroughly and remove the backing sheet.
4. Expose the stencil to a high intensity UV light source.
5. Washout the image with water and dry the screen.
6. Spot out any pinholes with a suitable blackout.

HAZARDS

There are no hazards associated with the normal use of this product.

WARNINGS

None applicable.

FIRE PRECAUTIONS

Film burns only with difficulty.

SPILLAGE

Not applicable.

FIRST AID

Not applicable in product's normal usage.

SHELF LIFE & STORAGE

The film should be kept in the protective packaging supplied. Store in a cool place away from hot drying cupboards and radiators. Do not store in a damp place. Correct storage conditions are at a temperature of 15-20 °C (60-68 °F) and at a relative humidity of 45-60%.

Shelf life at these conditions is 18 months.

ENVIRONMENTAL

Capillex films comprise a base film made of PET (polyester terephthalate) coated with a water dispersible polymer layer containing plasticisers, pigments, surfactants and light sensitive chemicals. The clean base film may be recycled via local collecting arrangements for PET. The coating does not contain any materials regarded as ecotoxic, environmentally persistent or listed on the EC Black or Grey lists. The film may be safely landfilled or destroyed by authorised incineration. The coating may be safely washed to waste but operators should ensure compliance with any discharge consent conditions determined by the sewage undertaker or water utility company.



DISPOSAL

Conventional refuse disposal.

PACKAGING

Capillex CP is available in roll width 1.04 and 1.22 metres wide in a variety of lengths. Standard sheet sizes for compact disc printing are: 205 x 180 mm and 205 x 205 mm boxed in 300 sheet packs. Custom cut sheets are available upon request.

Revised September 2014

Note – All data contained herein is based upon limited testing of pre-production material and should not be taken as representative of the eventual mass produced product.

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