

CAPILLEX CX

Product Data Sheet

Controlled Profile Film for Fine Line Printing

PRODUCT DESCRIPTION

Capillex CX is a green capillary photostencil film specifically formulated for fine line printing in demanding Industrial applications. Capillex CX will give a low, but controlled stencil profile over a wide mesh range from 62-100/cm. The low stencil profile and optimised Rz of Capillex CX gives superb print reproduction and minimises the thick edge effects normally seen when trying to achieve good print definition on coarse to medium mesh counts especially when using high build inks. Capillex CX can be used with conventional UV and solvent based inks.

FEATURES

- Very low stencil profile typically 3-4 μ
- Optimised stencil surface – low Rz
- Excellent mounting characteristics
- Wide exposure latitude
- Easy washout
- High resolution
- Excellent print quality
- Very durable

TECHNICAL SPECIFICATION

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|-----------------------------------|---|
| Coating | Green, water soluble UV photo-sensitive emulsion |
| Photographic sensitivity | 380 – 450 Nanometres |
| Mesh range | 62-100/cm |
| Stencil profile | 62 = 3 microns 90 = 4 microns |
| Rz value @ 22.5° | Rz 62 = 8 microns 90 = 6 microns |
| Drying - prior to exposure | Maximum 40°C |
| Exposure time | 5kw Metal Halide @1.2 metres = 4 mins |
| Washout | 10 - 45°C water - strong spray recommended for fine detail work |
| Resolution | 80 micron @ optimum exposure |
| Definition | Very good |
| Resistance | Excellent resistance to solvent based and UV curable inks |
| Decoating | Very easy |



APPLICATIONS

Capillex CX is sold strictly for use in the screen printing industry as a capillary photostencil 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 – for best results it is recommended that the Autotype Caplicator is used.
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 known 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 eighteen 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 CX is available in roll width 1.04 and 1.22 metres wide in a variety of lengths. Custom cut sheets are available upon request.

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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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