



Technical Data Sheet Bankers Surveillance Film

Surveillance Film: **MACO Surveillance P3**

The special requirements of the bankers surveillance, like high sharpness, for the license plate recognition, as well as very good fineness of grain, for the recognition of the persons, were taken into consideration with the concept of this film. The MACO Surveillance P3 film owns a high exposure reserve for the application with difficult lighting conditions. The practical sensitivity area lies between ISO 400/27° and ISO 800/30°. Practice tests have shown, that the film can be exposed up to ISO 3200/36°.

Qualities:

- panchromatic black and white negative film with a sensibility into the close infrared area;
- large latitude with high exposure reserve for the application with all lighting conditions and weather terms;
- special coating for the improvement of the film transportation qualities in the cameras;
- use with daylight, as well as with artificial light are unconditionally possible;
- polyester base with high breaking strength and resistance of tearing;
- the large contrast area guarantees the reproduction of most different tonality;
- very good resolution, very fine grain and very high sharpness, as basis for negatives with an excellent quality;
- especially suitably for digital evaluation over scanner;

TECHNICAL DATA

<u>Film layer:</u>	dimension – containing, tear proof polyester, 80µm crystal clear
<u>Filmstructure:</u>	
- Emulsion side:	protection layer + emulsion layers + PET base 80µm
- Back side:	NC protection coating
<u>Whole layer strength:</u>	(with layer base) 7,5µm
<u>Sensitivity:</u>	ISO 400/27°
<u>Grain size:</u>	RMS (x1000): 11.0 Refinal, 15min, 20°C
<u>Resolution power:</u>	contrast: 1000:1 lp/mm: 160

Darkroom lighting:

The MACO Surveillance / P3 Film is to be processed in complete darkness.

Black shield effect:

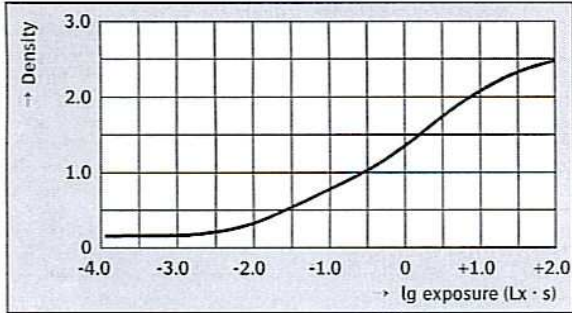
Exposure in seconds:	$1/10000 - 1/2$
Exposure correction in steps:	not necessary
Correction of development time:	not necessary

Storage:

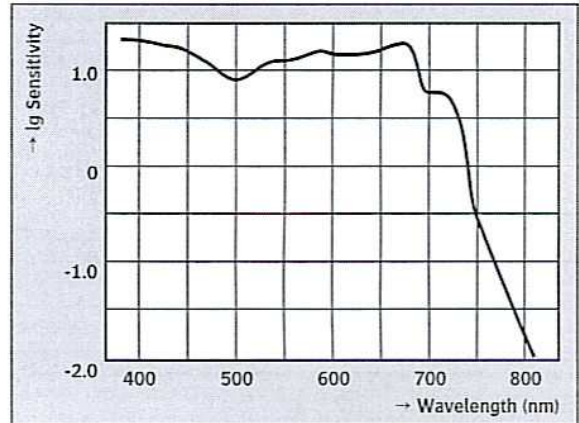
- unexposed film: up to 24 month, a cold storage is recommended
- exposed film: after exposures process as soon as possible

Diagrams:

Characteristic curve:



Spectral density:



Density curve:

Flash light 1/2700 sec.
 Developer Refinal, 15 min, 20°C
 Densitometrie visual filter

processing:

	tank development 20°C	deep tank/hanger 20°C	rotation dev. 26°C
TETENAL Neopres HC		-	150s
AGFA REFINAL			300s
ILFORD RT RAPID			80s/24°
SPUR TRAFFIC SPEED			75s/30°
AGFA RODINAL	15 Min.		
LABOR PARTNER NEGASTAR			60s/27°

AGFA, ILFORD, LABOR PARTNER, SPUR and TETENAL are protected brand names.

The MACO Surveillance P3 Film must be processed within complete darkness. The MACO Surveillance P3 Film can be processed with customary developers by e.g. AGFA, KODAK, SPUR and TETENAL successfully. For reaching the of optimum results, a test development is recommend to determine the correct developing times, or developing temperature. By the use of others, not from MACO checked developers, it can come to reductions of quality, by coarsing grain, and point to lower sensitivity exploitation. These disadvantages are based on not using of suitable photo chemistry. For the regulation of optimum developing times, pre - exposed test stripes are available.

Packaging:

35mm – 30,5m / spool, double perforated
 35mm – 30,5m / core, double perforated
 35mm – 45,7m / spool , double perforated
 35mm – 45,7m / core, double perforated
 35mm – 1.100m double perforated
 35mm – 1.100m unperforated

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