and darkroom safelights needed. description, format, item number, sensitivity The label of the box lists the: Material

PACKAGING/NOTE

Optimal flatness thanks to high-quality polyester base bossiple with indirect red light (test first) Loading of the sheet film holders and processing color spectrum

Good tone reproduction, with fine differentiations in the cameras

exposures, which is especially important with pinhole Very good reciprocity behavior, even after multi-minute with pre-flashing and the developer

Medium to high contrast, which can be influenced both also known as Melinex, in high-gloss Ilfochrome® look.

 $\label{eq:high-quality} \mbox{High-quality, durable and modern polyester base,}$

Excellent maximum density shooting and enlargement material

and white paper, can be used at 3-6 ISO both as Low sensitivity, orthochromatically sensitized black

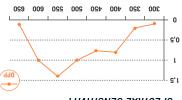
PRODUCT FEATURES SUMMARY OF IMPORTANT

duction. The print tone is neutral. and luminous whites, with excellent reprodelivers prints with very deep, rich blacks slide film with around 4 to 5 apertures. It contrast range is roughly equivalent to a corresponds with a gradation of 3 to 4; the and 6 ISO. It is relatively high contrast, and photography. The sensitivity is between 3 suitable for photograms and experimental or pinhole cameras as sheet film. It is also enlargement. It can be used in large-format The DPP can be used both for shooting and

this Melinex** base. world-famous lifochrome® paper also uses RC base, but rather a polyester base. The the emulsion is not poured onto an HB or orthochromatically sensitized. However and white paper that is direct positive IMAGO DIRECT POSITIVE PAPER is a black

90'0 91'0 мојјәд 9t'0 00'I әпія 97'0 64'0 einegeM ₽₽°0 0°8°0 U∂∂J 90'0 89'0 กรงลท 1,43 ₽G'N рәи 91'0 99'0 Gray 88'0 06'0 resa Сгау Сгау 0,28 0,02 69'I 1,28 00'0 00'0 әұіцм Black 1,64 1,81

GRAY TONE CARD



SPECTRAL SENSITIVITY

62×4000	-
19×8′0S	20 × 24
8'05 × 9'0 7	76 × 20
9′0+×S′0Σ	15 × 16
9'S\$ × 6'ZZ	11 × 14
24 × 30,5	21 × 3′6
20,3 × 25,4	01 × 8
20'3 × 25,4	01 × 8
12,7 × 17,8	7 × č
10,2 × 12,7	S×₽
21 × 6	∠'₹×5'Σ
SIZE (CW)	SIZE (INCH)

STAMRO



Рготестіче Layer

3 120	=	\cdot Daylight, sunny, but at sunrise, sunset
08117	=	· Daylight, sunny
0519-17	=	· Daylight, sunny, with some clouds
0819-9	=	 Daylight, cloudy day.
		the sensitivity.

the red component of the light, the lower sensitivity. On the other hand, the higher plue component of the light, the higher the make an image unusable. The higher the deviation of 30% (1/3 of an aperture) can difference can be up to 100%! Even a the lighting conditions. Be aware that the dependent on the exposure situation and The sensitivity of 3 to 6 ISO is greatly mirror image.

is that the image will be reproduced as a tically sensitized films. Your only concern red light, as is the case for orthochromain complete darkness or with muted dark your sheet film holder. This must be loaded The material can be used like a sheet film in

DPP AS EXPOSURE MATERIAL

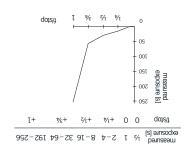
- · Minor, linear overexposure in the other color ranges Strong underexposure in the red tones
 - The tone reproduction is optimally adjusted OSI 8 si yiivitisnes eAT

The medium gray and maximum density match:

neutral lighting conditions. daylight with a slightly cloudy sky, i.e. with overexposed. These exposures were shot in DPP, i.e. whether they are under- or fells us how they are reproduced by the The effective density of the various colors

0
0
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1
···· g'l
7

der to influence the steep tone gradation or It is necessary to use subtle pre-flash in or-PRE-FLASH TECHNIQUE



achieving a good approximate value for the through the opal diffuser with f 8, 2",

measured value f 8, 8" - initially pre-flashed

· Example with the same aperture + time:

of the lens and then it is subtly preflashed.

the diffusing disc is placed directly in front

metering. 2-3 light values are deducted

from the measured value (1/3 to 1/2 f-stop),

exposure. A prerequisite is correct exposure

frosted glass pane) directly before the actual

with all the gray tones. The pre-flash is car-ried out with an opal diffuser (diffusing disc,

high contrast, and achieve a defined image

BLACKSHIELD

reduced gray tones. graphic effect and high contrast images with conditions, and can lead to a somewhat

sie very dependent on the exposure No pre-flash: Images without pre-flash

metering. good result is always precise exposure without pre-flash. A pre-requisite for a different options for exposure - with or or other camera systems), there are two various cameras (large format, pinhole For photographic applications with

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BLACK & WHITE DIRECT POSITIVE PAPER ILFOCHROME LOOK

DATA SHEET

pre-flash. This can be individually increased or decreased. (e.g. up to f 8, 8" main exposure, 2" pre-flash = -2 f stop)

· Example with the same time + aperture: measured value f 8 - exposed with f 16 = 2 stops underexposed creates a good approximate value for the pre-flash. This can be individually increased or decreased. When this technique is used the ISO sensitivity is between 4 and 6.

Hint: a few trial runs are required Measured: f 11 2" pre-flash - 7" main exposure - ISO 6

DARKROOM LIGHTING

It is important to use dark red darkroom lighting, such as that used for orthochromatic films, to prevent fogging of the paper. We explicitly recommend Safelight Ilford 906, or similar bulbs with this spectral composition. The exposure distance should also be considered (further away), and indirect exposure is also recommended.

Attention: If these parameters are not observed then the results will not be optimal - the paper will be foggy, and the contrasts and maximum density will be lost.

layer means that pre-hydration is not necessary. Development: the development is possible in any standard paper developer, with a dilution for normal contrast. Depending on the developer we recommend a slightly longer development time of 2 to 4 minutes, in order to optimize the maximum density. The Rollei Print Neutral RPN in a dilution of 1+9 is particularly suitable. The processing temperature of the developer bath should be between 20°C and 24°C.

STOP BATH

The stop bath between the development and fixer baths prevents:

Post development

FINAL BATH

The final bath with a wetting agent guarantees even run-off of the water, so that no drops, spots or streaking occurs. Some wetting agents also guarantee protection from fungus and bacteria formation. High dilution (between 1+100 and 1+1000) and gentle movements should be used to minimize the creation of foam, as this would lead to unsatisfactory drying.

POSSIBLE SOURCES OF ERROR

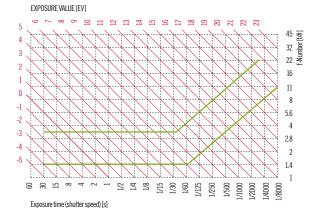
- · Image is too bright it is overexposed = too much light
- · Image is too dark it is underexposed = too little light
- The image is dull no blacks = incorrect darkroom lighting or lighting too close to the paper, developer too diluted, development time too short, developer temperature too cold
- Image has drying spots = use wetting agent.

· The contamination of the fixer bath with alkaline developer Maco Ecostop 1+19 Rollei Citrin Stop 1+19 1 minute FIXER BATH The fixer bath clarifies the layer, removes the sensitive silver salt in unexposed and undeveloped areas, and stabilizes the image silver (the ideal conclusion of the process is then in the final rinse, where the not easily soluble silver salts are completely removed). A reference point for the correct fixer time is double the time needed for clarification of the film. With standard fixer baths this normally means a fixer time of between 3 and 5 minutes.

Susanna Kraus is the art director of IMAGO Camera and its visionary mastermind.

As a trained actress and concept artist she has devoted herself to the IMAGO project for many years. During this time she has initiated and provided the ideas for many important inventions, such as the rebirth of a production technique of the **Harman** Direct Positive Paper.

F/STOP TABLE



TRANSFERAL OF COLOR & B/W SLIDES

A stepped grey wedge, from white to black with a lot of gray tones, can be created in a darkroom with an enlarger. This is a test to determine the exposure time for the pre-flash. The first recognizable step after the deepest black is the right exposure time. The entire paper should be exposed with this, and then the photographed motif. This achieves a good differentiation over the entire tonal range.

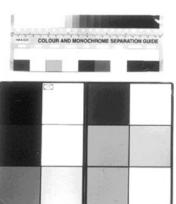
DEVELOPMENT PROCESS

The paper should be developed immediately after exposure so that no changes occur to the latent image. IMAGO DIRECT POSITIVE PAPER can be processed in the same processing solutions as standard B/W photo paper, either in a tray or with automatic paper development machines. The stable

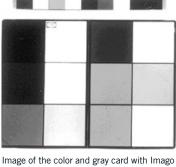
COLOR RENDERING & EXAMPLE IMAGES



Kodak and Jobo color and gray card



DPP Pre-flash f 11 2" (frosted glass) Main exposure f 11 8" at ISO 8





Annegret Kohlmayer



Kodak and Jobo color and gray card in grayscale

Susanna Kraus & Annegret Kohlmayer