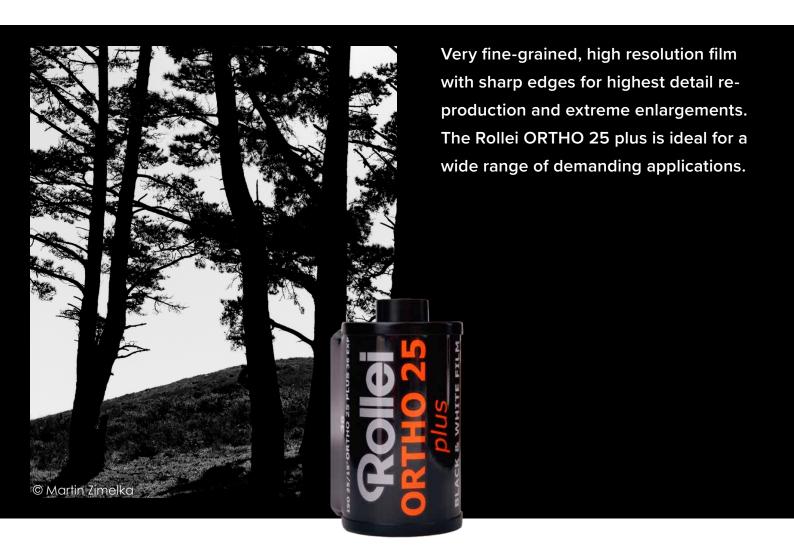
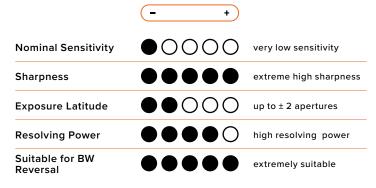
Rollei ORTHO 25 plus



DISCOVER MORE UNDER

ROLLEI ORTHO 25 PLUS

Orthochromatically sensitized with a nominal sensitivity of ISO 25/15°, Rollei Ortho 25 + is a technical, steeply working black-andwhite film with a high sensitivity reserve of up to two apertures (depending on development). The document emulsion offers an extraordinary sharpness, with finest grain and extremely high resolving power. The ORTHO 25 plus is used for technical-scientific applications and as a halftone film in image-based photography. But also charismatic portraits, high-contrast still lifes and epic landscapes are no problem for him.





AVAILABLE AS



(DX coded)





35 mm × 30,5 m



Sheet Film: 4 × 5 inch | 25 sh. 5 × 7 inch | 25 sh. 8 × 10 inch | 25 sh.

FACTS:

- · Low sensitivity orthochromatic black and white film.
- · Blue-green sensitivity allows the film to be handled under red darkroom lighting
- · Use with both daylight and tungsten lighting
- · Blue-green sensitivity allows film to be handled under red darkroom lighting
- · Extensive control of contrast through choice of exposure, developer, and development time
- Polyester base with high breakage and tear resistance, archival strength
- · Very fine grain and very high sharpness as a basis for
- · negatives with an excellent quality
- · Suitable for: Reproductions, X-ray image reproductions, astrophotography, black and white and blue slides, graphic alienations
- Can be used as b&w slide film due to the crystal clear PET base
- · Especially suitable for digital processing via scanner

ORTHO 25 Plus Sheet Film is coated on 0.180 mm / 7 mil polyester base, which is known for its high dimensional stability and durability. The film is protected by a powerful antihalation layer which becomes clear during development. When properly processed and stored, ORTHO 25 Plus has excellent archival properties.

STORAGE AND HANDLING:

- Always protect from direct sunlight
- · Minimum shelf life as indicated on package: Store at Ø 18°C
- · develop for a short time after exposure
- avoid high storage temperatures above 40°C

FILTER-FACTORS:

By using yellow or red filters, you can increase the tonal values in the respective wavelengths. In general, filters of all kinds, i.e. color, pole, neutral density filters, can be used as usual.

Please follow the manufacturer's recommendations.

- Yellow filter for contrast enhancing cloud rendering
- Orange filter for clearer long-distance vision
- · Red filter for a more dramatic image mood

The loss of sensitivity is taken into account during a TTL measurement of the camera. If external light meters are used, the filter factors listed below are used to adjust the effective film speed in order to obtain a correct measurement.

LABORATORY LIGHTING:

The film can be processed in absolute darkness and should not be exposed to sunlight or darkroom lighting! We recommend to use a change bag.

LAYER STRUCTURE OF THE FILM:

- Protective coating
- Emulsion layer
- Antihalation layer (AHU)
- Carrier Acetate
- Back Layer (Anti-Curling)

DEVELOPMENT:

As is well known, the development result is not only dependent on time, temperature and developer type, but also on the development method (tank, dish, processor). In order to achieve reproducible results, the following instructions must be observed:

- · When processing in developing cans, the can must be moved (tipped) continuously during the first minute and then every 30 seconds. Development times of less than three minutes should be avoided!
- When processing in development drums (rotary development), the speed of rotation should be greater than 30 rpm (with changing direction of rotation). Development times of less than three minutes should be avoided.

CAN DEVELOPMENT

When developing and fixing the film in a tank with a reel, the following applies: 4 × tilting of the tank during the first 10 seconds at every minute. After each tilting rhythm, there should be a short push on the table top. This releases air bubbles adhering to the film. Compared to developing trays in open containers, the advantage is that work can be carried out in ambient light. In addition, the agitation of the tank can be mechanized.

ROTATION DEVELOPMENT

In general, the processing conditions of rotary development (e.g. Jobo) are very similar to those of manual can development. The advantages of rotary development are:

- · Reduced chemical consumption
- · Shorter development times
- · More constant working conditions (temperature)
- · Higher reproducibility of the result

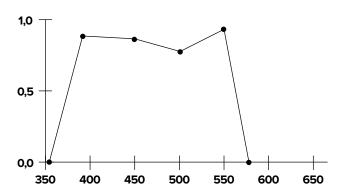
Due to the permanent agitation, a rough rule of thumb for rotary development applies: 10 to 15% shorter development times than in manual hand development (can).

Processing times are given by the respective manufacturer of the machine.

MACHINE DEVELOPMENT

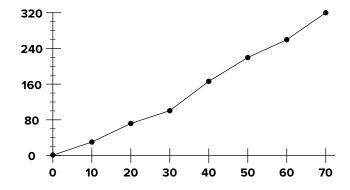
Rollei films can be processed in all common developing machines (e.g. rotary, hanger, drag belt or roller transport machines).

SPECTRAL SENSITIVITY:



BLACK SHIELD EFFECT:

At	Effective exposure
1/1000 – 1 sec	_
5 sec	7,5 sec
10 sec	20 sec
20 sec	50 sec
30 sec	75 sec
40 sec	100 sec
50 sec	150 sec



DEVELOPMENT TIME TABLE:

Agitate in the first 30 seconds continuously, then once every 30 seconds. Processing temperature: 20°C

The development times given below are to be understood as approximate values and refer to an average contrast of γ = 0.65. Due to individual processing conditions, deviations in the times are possible.

DEVELOPER	ISO	DILUTION	TIME (min) 20°C
Rollei Supergrain	25/15°	1 + 12	5:30
Rollei RLC	25/15°	1+4	6
Rollei RHC	25/15°	1+7	5
Rollei RLS	25/15°	- 1+4	10 (24°C)
Kollei KL2	50/18°	- 1+4	12 (24°C)
DOO/Dodinal	25/15°	1+25	5:30
R09/Rodinal -	50/18°	1+50	10
iR09 Spezial/Studio	25/15°	1 + 31	6
ILFORD D-11	25/15°	1+1	8
ILFORD Perceptol	25/15°	Stock	10
Kodak D-76	25/15°	1+1	8
Kodak T-MAX	25/15°	1+4	7
Spur Acurol-N	25/15°	1+70	11

PRE-WATERING

- → If necessary, pre-soak film in water for approx. 1 minute
- Temperature: Processing temperature

DEVELOP

- Development times can be taken from the adjacent table
- Tilt constantly within the first 30 seconds, then once every 30 seconds
- Recommended developer: Rollei SUPERGRAIN
- Temperature: Processing temperature

STOP

- Duration of the stop bath: about 60 seconds
- → Recommended stop bath: Rollei RCS Citrin Stop
- → Dilution: 1 + 19
- Temperature: Processing temperature

FIX

- Duration of fixation: between 3 to 8 minutes
- Recommended fixing bath: Rollei RXA Fix Acid
- → Dilution: 1+7
- Temperature: Processing temperature

WASH

- → To remove all chemical residues:
 - · Rinse approximately 8 10 times with clear water.
 - · Time interval: 6 to 10 minutes
- Temperature: Processing temperature

FINAL RINSE

- → To shorten drying time and support uniform drying; acts as a fungicide and antistatic;
- Demineralized water with wetting agent
- Recommended wetting agent: Rollei Wetting Agent c
- → Dilution: 1 + 100
- → Temperature: Processing temperature

DRYING

- → Hang in a dry and dust-free room, with sufficient distance from the floor.
- Carefully remove the water drops that are on the lower corners of the carrier with a tissue/absorbent paper.
- → We recommend never to strip the film if a wetting agent is used

PUSH & PULL

Pushing is the deliberate underexposure of the film, subsequently accompanied by overdevelopment. The film loses shadow detail, but can effectively be exposed 1 – 2 stops lower. Highlights and midtones thus stand out with less contrast. Rough push time formula:

→ +1 f-stop: Base time × 1.33 + 2 f-stops: Base time × 1.33²

Pulling is the opposite and means the deliberate overexposure of the film, subsequently accompanied by underdevelopment. The shadow drawing is raised - extreme highlights and an "overexposure" can disturb the photo. Rough pull-time formula:

→ - 1 f-stop: Base time: 1.33 → - 2 f-stops: Base time: 1.332

ALL ROLLEI FILMS AT A GLANCE

	RPX 25	RPX 100	RPX 400	RETRO 80S	RETRO 400S	SUPERPAN 200	ORTHO 25 plus	INFRARED
ISO	25	100	400	80	400	200	25	400
Carrier	Polyester	Triacetate	Triacetate	Polyester transparent	Polyester transparent	clear Triacetate	Acetate	Polyester transparent
Sensitivity	panchromatic	panchromatic	panchromatic	super- panchromatic	panchromatic panchromatic	panchromatisch	orthochro- matic	panchromatic extended IR sensitivity
35 mm	✓	√	✓	✓	✓	✓	✓	✓
120 Roll Film	√	√	✓	✓	✓	√	√	✓
Sheet Film	4 × 5 inch 25 sh.	-	-	-	-	-	4 × 5 inch 25 sh. 5 × 7 inch 25 sh. 8 × 10 inch 25 sh.	4 × 5 inch 25 sh.
35 mm × 30,5 m	√	√	✓	✓	✓	✓	√	✓
35 mm × 17 m	✓	✓	√	√	√	✓	_	_

