

Rollei

RPX-D

FILM
DEVELOPER

RPX Film Developer

Rollei RPX-D is a innovative development technique for black and white films. Not only does it utilise the nominal speed of the films very well, **it also attains ultra-high film speeds of the highest quality with suitable films.**

The most suitable film for that is the **Rollei RPX 400**. In combination with the RPX-D developer this film can attain a speed utilisation of ISO 3200/36°. The quality attained is unrivalled by that attained through pushing. The main feature of this quality is not only its low graininess and its high definition, but also **the full retention of the tonal values.**

Another outstanding feature of this new ultra-high speed technique is its hitherto unknown **flexibility**. The full range of film speeds between ISO 400/27° and ISO 3200/36° can be adjusted with just one and the same film and developer. The graininess indeed increases relative to the speed, **the tonal values, however, are fully retained.**

Necessary to that end is nothing more than the consideration of the following parameters:

Dilution, speed utilisation, development parameters:

Rollei RPX 400:

ISO 400/27°, dilution 1 + 11, temperature 20°C / 68°F, development time 11 minutes

ISO 800/30°, dilution 1 + 7, temperature 22°C / 71.6°F, development time 13 minutes

ISO 1600/33°, dilution 1 + 5, temperature 24°C / 75.2°F, development time 14 minutes

ISO 3200/36°, dilution 1 + 4, temperature 25°C / 77°F, development time 15 minutes

The temperatures given refer to the **temperature when the developer is first poured**; there is **no need** to keep the temperature constant during the development process as long as the development takes place at normal room temperature. The Agfa inversion tact is to be used (permanently for 30 seconds, then once every 30 seconds).

There are new insights as to the RPX 400 roll film. An n-development, which is equivalent to a nominal curve, is possible at a speed of 1600/33°. The data are as follows:

1 roll film in the 500 ml can

Chemistry: 40 ml Rollei RPXD + 460 ml water

Temperature: 24°C / 75.2°F (initial temperature, no need to keep temperature constant)

Inversion tact: permanently during first minute, then every 60 seconds twice

Time: 11,5 minutes

Development parameters of other films (the Agfa inversion tact is to be applied)

Rollei RPX 100: ISO 100/21°, dilution 1 + 15, temperature 20°C / 68°F, development time 6 to 6.5 minutes

Iford Delta 100: ISO 100/21°, dilution 1 + 19, temperature 20°C / 68°F, development time 6 to 7 minutes

Fuji Acros 100: ISO 80/20°, dilution 1 + 19, temperature 20°C / 68°F, development time 7.5 minutes

Kodak 100 Tmax: ISO 100/21°, dilution 1 + 19, temperature 20°C / 68°F, development time 8.5 minutes

Kodak Tri-X 400: ISO 400/27°, dilution 1 + 9, temperature 20°C / 68°F, development time 6.5 minutes

Kodak 400 Tmax: ISO 400/27°, dilution 1 + 15, temperature 20°C / 68°F, development time 7.5 minutes

Processing notes:

If hard water is used for diluting, a grey coating, which would have to be removed, may occur on the developed films depending on the emulsion. In order to avoid this, soft water should be used for diluting. In areas with hard water, deionised water should be used.

Vigorous movement when pouring is to be avoided as this may produce impaired results around the perforation of 35 mm films. This undesirable effect depends on the emulsion used. Smooth movements are recommended in order to avoid this.

The RPX 400 does not require vigorous movement for full speed utilisation!

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