

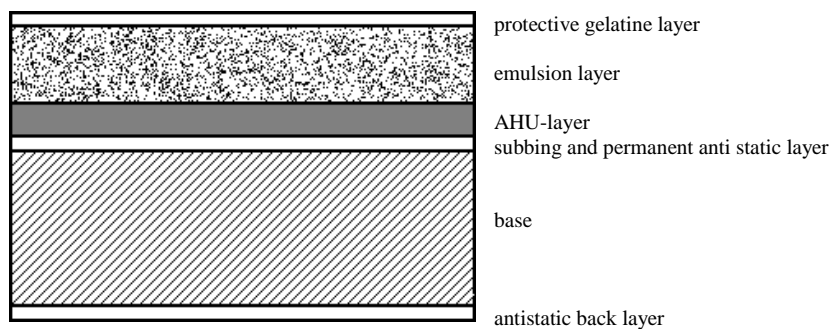
# TECHNICAL INFORMATION

## ORWO Duplicating Positive Film DP 31

**Product description:** ORWO duplicating positive film DP 31 serves as a film for the production of intermediate positives (master positives). Due to its panchromatic sensitisation this film can be used for duplicating from black & white negatives as well as from colour negatives producing well-balanced grey values referring to original colours. Special features of this film are the excellent resolving power and the extraordinary fine grain. Between the emulsion layer and the clear base is a new AHU-layer (Anti Halation Under layer), which will be uncoloured during the processing.

**Base:** Safety base, polyester, 125 µm, clear

### Structure of layers:



### Availability of standard assortment:

width	length	perforation
35 mm	610 m	P-4750 (KS 1870)
35 mm	610 m	N-4740 (BH 1866)
35 mm	305 m	P-4750 (KS 1870)
35 mm	305 m	N-4740 (BH 1866)
16mm	610m	1-0 RA-7605 (1RB 2994) K-Code

further possibilities according to request



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### Storage:

<i>Raw Stock:</i>	up to 12 month:	18°C or lower
	more than 12 month	14°C or lower
<i>Exposed film:</i>	process as soon as possible	
<i>Processed film:</i>	store at 21°C or lower with 40 to 60 % relative humidity for normal periods	
	long term storage: according to the standards ISO 5466, SMPTE RP131 and ANSI IT9.11.	

Substances as sulphur dioxide and hydrogen sulphide, formaldehyde vapours and radioactive radiation have a negative influence on films.

**Warranty:** 24 month to the a.m. storage conditions

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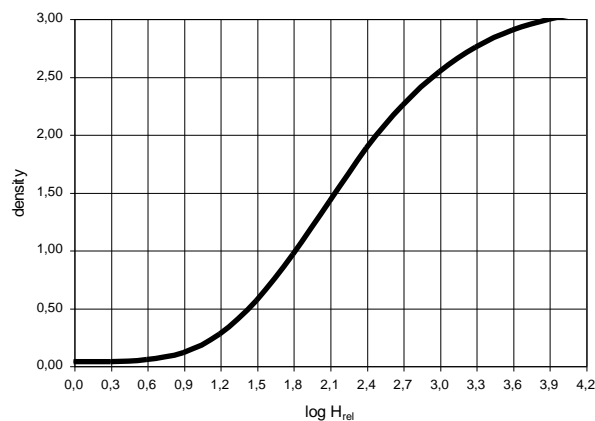
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**Processing:** According to ORWO instruction 1182 (D96) to a recommended average gradient of  $g = 1.6$ . Process as soon as possible.

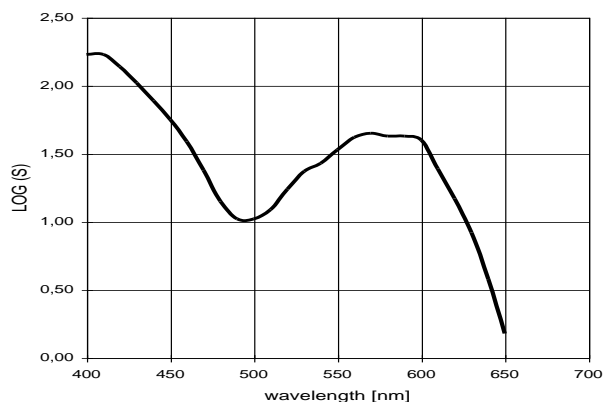
**RMS-Granularity:** Less than 9 ( read at a net visual diffuse density of 1.0 above the minimum density using a 48  $\mu\text{m}$  aperture)

**Modulation transfer factor  $m_{30}$ :**  $\geq 0.70$

**Characteristic curve DP 31:** Processing ORWO instruction 1182



**Spectral sensitivity:** For equal energy spectrum



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**Darkroom lighting:** Films should be processed in total darkness. If absolutely necessary, processing can be done at a light of a 15 watt-lamp (indirect) with ORWO safe light filter no. 108 (dark green), Kodak no. 3 or Ilford no. 908, but a distance of at least 75 cm should be kept.