

TECHNICAL DATA SHEET

Konica

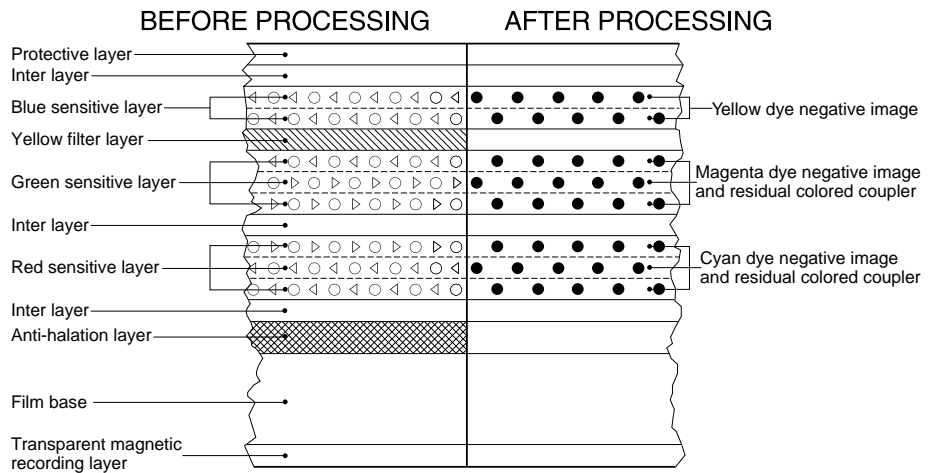


Konica Color JX 200 IX240 Film

FEATURES

Konica Color JX200 is an ISO 200/24° color print film balanced for daylight and specially designed for the Advanced Photo System. Konica Color JX200 utilizes the latest emulsion technologies such as JX-Crystal, JX-Coupler and JX-DIR Coupler to achieve all required specifications for the Advanced Photo System. These advanced technologies assure extremely fine grain, smooth gradation and high saturation for vivid color reproduction. ISO 200 is for medium-speed film. Konica JX200 has an extra margin of speed, making it an ideal film for universal use outdoors and indoors.

LAYER STRUCTURE



FILM BASE

Polyethylene Naphthalate base

FILM SIZES AVAILABLE

IX 240 size: 15 exp., 25 exp., 40 exp.

FILM SPEED

EXPOSURE CONDITIONS

Konica Color JX200 is designed for use with daylight and electronic flash. While color-balanced for daylight, this film is designed to retain optimum spectral sensitivity and yield satisfactory results when exposed under tungsten or fluorescent light, as well. For best results with these light sources, however, the use of appropriate filters is recommended.

| Light Source | ISO Speed | Light Balancing Filter |
|------------------------------|-----------|------------------------|
| Daylight or electronic Flash | 200/24° | None |
| Photolamp (3400K) | 64/19°* | Wratten No. 80B |
| Tungsten (3200K) | 50/18°* | Wratten No. 80A |

*Includes the exposure factor to obtain best color results without special printing.

RECIPROCITY CHARACTERISTICS

A wide range of shutter speeds (i.e. 1/10000—1 sec.) can be used without loss of film speed and tone reproduction.
To compensate for reciprocity failure, use the following data as a guide:

RECIPROCITY FAILURE COMPENSATION GUIDE

| | | |
|----------------------------|-----------|---------|
| Exposure time (in seconds) | 1/10000—1 | 10 |
| Exposure Compensation | None | +1 stop |
| Color Compensating Filters | None | None |

EXPOSURE

OUTDOORS UNDER DAYLIGHT

| | | | | | |
|---------------|---|-----------------|---------------|---------------|-------------------------|
| Conditions | Bright sunlight (Seascape, Snow scene) | Bright sunlight | Hazy sunlight | Cloudy bright | Cloudy dull, Open shade |
| Lens opening | f/16 | f/11 | f/11 | f/8 | f/5.6 |
| Shutter speed | 1/500 sec. | 1/500 sec. | 1/250 sec. | 1/250 sec. | 1/250 sec. |

This table is applicable for exposures from 2 hours after sunrise to 2 hours before sunset.

The use of an exposure meter is highly recommended in cloudy weather or in open shade since light intensity differentials are in continual flux.

Apertures increased by one or two stops are usually suitable for back-lighted, close-up subjects.

ELECTRONIC FLASH EXPOSURE

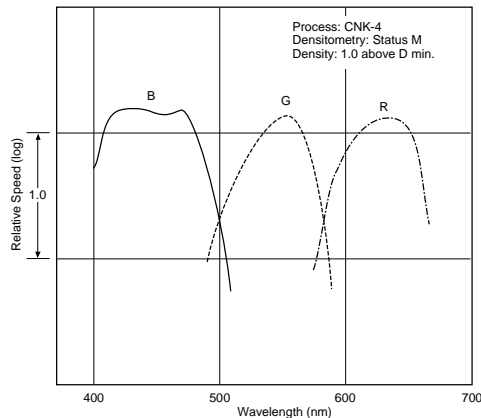
No filter required.

To determine the lens opening, divide the guide number by the flash-to-subject distance. If negatives are over exposed, use a higher guide number; if they're under exposed, use a lower number.

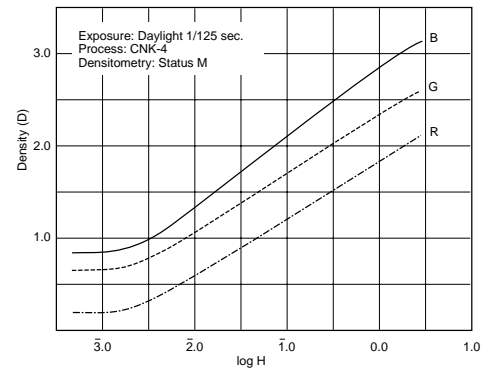
STANDARD PROCESSING Konica Color Negative Film Process CNK-4 Series or Process C-41

SPECTRAL SENSITIVITY • CHARACTERISTIC CURVES

SPECTRAL SENSITIVITY



CHARACTERISTIC CURVES

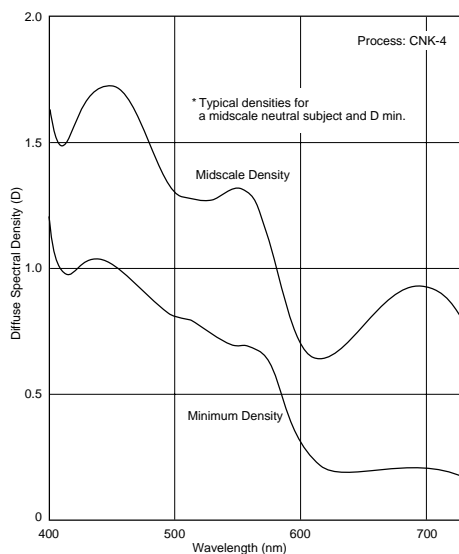


GRANULARITY

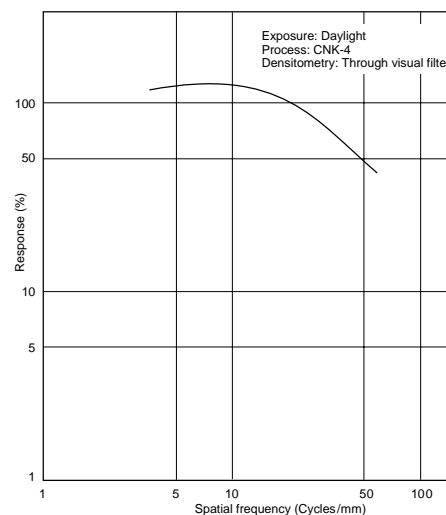
DIFFUSE R.M.S. GRANULARITY: 4
Magnification: 12X
Aperture diameter: $48\mu\text{m}\phi$
Diffuse transmission density: D min. +1.0

SPECTRAL DYE DENSITY CURVES • SHARPNESS

SPECTRAL DYE DENSITY CURVES



MODULATION TRANSFER FUNCTION



RESOLVING POWER

Test-Object Contrast 1.6:1— 50 lines/mm
Test-Object Contrast 1000:1—125 lines/mm

PRECAUTIONS

Konica Color JX200 film features enhanced raw stock and latent image stability, and resistance to harmful gases. However, the following precautions must be observed in handling color negative films:

1. HANDLING OF FILM: Avoid direct sunlight or other strong light when loading or unloading camera.
2. PROCESSING AND PRINTING: Process and print promptly after exposure to minimize effects of latent image change.
3. STORAGE OF FILM: Keep unused film in a cool, dry place such as a refrigerator. (Storage at below 10°C or 50°F is recommended.)
Avoid the following conditions:
 - i) High temperature and high humidity.
 - ii) Exposure to harmful gases such as formaldehyde.
 - iii) Leaving film in camera for extended periods.
4. EXPIRATION DATE OF FILM: For best results, process before expiration date stamped on package.
5. STORAGE OF PROCESSED FILM: Keep processed film in a cool, dry and dark place to minimize fading of dyes.
6. This film has a magnetic data recording track. Therefore keep the film away from magnetic fields.

NOTICE: The characteristic curves and data in this publication represent test results obtained under the specified conditions of exposure and processing. The manufacturer reserves the right to modify product characteristics at any time.