FUJIFILM

DATA SHEET

FUJIFILM RECORDING FILM for Digital Separation
ETERNA-RDS 35mm Type 4791 (PET)

1. FEATURES AND USES

FUJIFILM RECORDING FILM for Digital Separation ETERNA-RDS 35mm Type 4791 (PET) is a black and white film intended for making archival black and white separations from color digital masters. This film is designed for a digital separation workflow using a film recorder. ETERNA-RDS offers a significant improvement over conventional non –specific separation film stock, producing finer detail, accurate gradation linearity, improved granularity and sharpness with reduced flare.

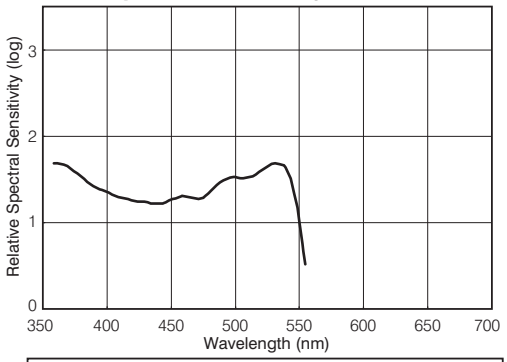
FEATURES

(1) Exceptional image quality. Improved granularity, reduced flare and higher resolution deliver higher quality, sharper image structure.
(2) Expanded latitude and linearity
(3) Designed to run in either a D96 or D97 process. Photographic properties have been extensively retooled to yield enhanced linearity in both D96 and D97 processes, which simplifies calibration work.
(4) Superior proven archival characteristics utilizing a PET base.

2. COLOR SENSITIVITY/SAFELIGHT

Use a Fujifilm SLG-3(dark red) or KODAK No.2 safelight filter over the safelight.

Spectral Sensitivity Curve



Processing: Kodak D96, 8min, 21℃ Measurement: Visual diffuse density

3. FILM BASE

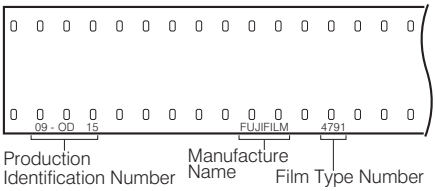
Polyester base (PET)

4. FILM SIZE

35 mm

5. EDGE MARKINGS

Film Type Number: 4791



The above edge marking is printed at interval of 1 feet.

6. SHAPE AND PITCH

N-4.740mm (Negative perforations with short pitch)

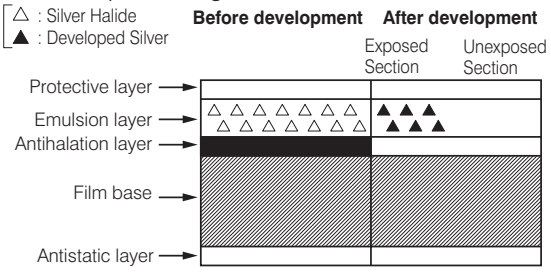
7. PACKAGING UNITS

610m-can package (2000ft on a 35mm 3 inch core)

8. LAYER STRUCTURE

Polyester base (PET)

The polyester film base is backed with a transparent antistatic layer to provide such properties as static electricity control and scratch resistance. This layer serves to prevent the occurrence of static arcs and the collection of dust due to static electricity. This property is still effective even after processing.



9. GRANULARITY

RMS Granularity ····· 4.0

Diameter aperture of micro-densitometer measurement: 48 μm
Test sample density: Visual diffuse density +1.0

10. PROCESSING

These films can be processed with KODAK Process D-96 or D-97.

Processing time should be adjusted so as to achieve the recommended gamma of 1.0 to 1.3.

Recommended processing conditions (D-96)

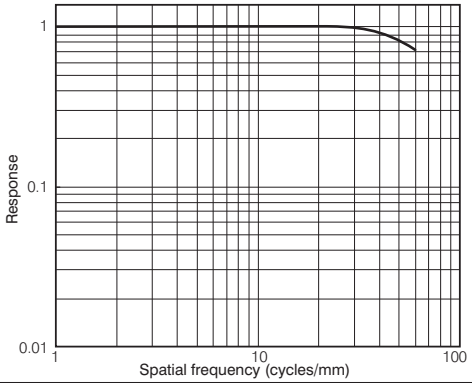
	Developing	Washing	Fixing	Washing	Drying
Temperature	21°C ± 0.2°C	21°C ± 1°C	21°C ± 1°C	21°C ± 1°C	35°C
Time	8 min	3 min	11 min	10 min	

Recommended processing conditions (D-97)

	Developing	Washing	Fixing	Washing	Drying
Temperature	21°C ± 0.2°C	21°C ± 1°C	21°C ± 1°C	21°C ± 1°C	35°C
Time	3 min	3 min	9 min	10 min	

11. SHARPNESS

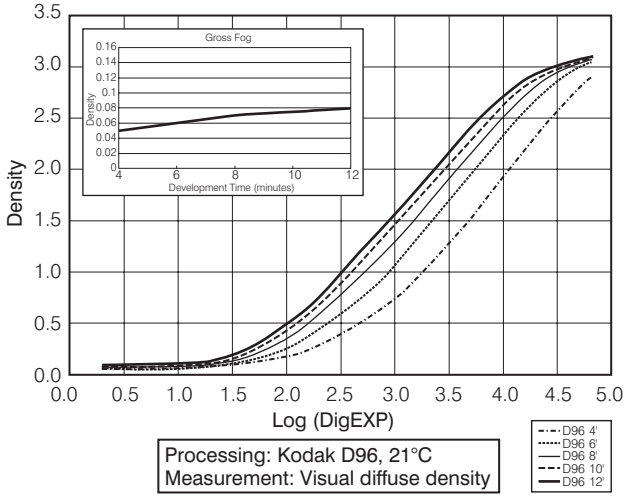
Contrast Transfer Function (CTF)

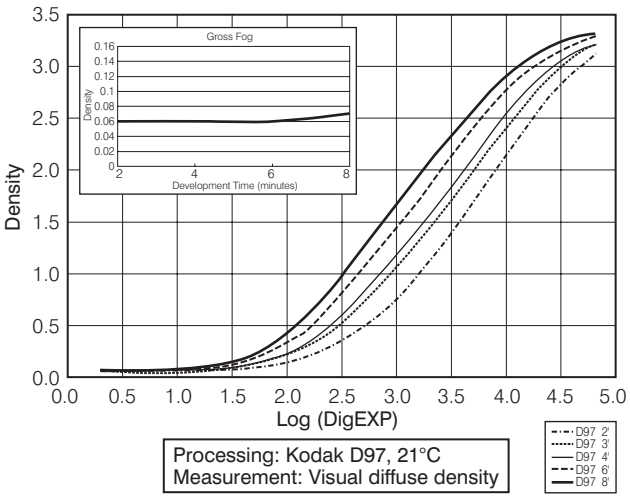


Processing: Kodak D96, 8min, 21°C Density: 1.5 (Visual diffuse density)

Spatial frequency attenuation characteristic or amplitude relative to rectangular wave chart.
(It should be noted, however, that the data presented was normalized with the amplitude of zero frequency.)

Characteristic Curves





12. HANDLING AND STORAGE OF FILM

- Store unexposed film at a temperature of 13°C (55°F) or less.
- Film that has been stored at low temperature should be allowed to return to room temperature before opening. If you open film while it is still cold, condensation may form, the film surface may become more susceptible to damage, or winding slack may arise in the camera.
- After exposing the film, you should process it as soon as possible.

13. HANDLING AND STORAGE OF PROCESSED FILM

- To maximize image permanence, these films use materials that exhibit as little compositional change as possible; however, it is not possible to eliminate completely the influence of light, heat, atmospheric ozone, gas pollutants, moisture, mold and other factors that affect image permanence. Controlling temperature and humidity is the most important factor in the preservation of film. For storage in a dark place for about 10 years, the film should be kept at a temperature of 25°C or lower, with humidity at 30% to 50%. In the case of storage for 20 years or more, the film should be kept at a temperature of 10°C or lower, with humidity at 30% to 50%.
- Use of a desiccant is recommended during long-term film storage.

Note : Data contained in the information above are the results of normal testing conducted by Fujifilm. Because of product improvements, film characteristics are subject to change without notice.

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