EASTMAN High Contrast Positive Film 5363

Kodak

TECHNICAL DATA

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EASTMAN High Contrast Positive Film II 5363 is a medium-speed black and-white positive film that is suitable for making both positive and negative titles. It is also useful for production of printer effects, such as silhouette and traveling mattes. This blue-sensitive film is characterized by high contrast, excellent sharpness, and very high resolving power.

BASE

This film has a clear acetate safety base with an antihalation undercoat. The backside has an anti-static coating with a lubricant.

DARKROOM RECOMMENDATIONS

Use a KODAK OC Safelight Filter / greenish-yellow with a 15-watt bulb, no closer to the film than 1.2 metres (4 feet).

STORAGE

Store unexposed film at 13°C (55°F) or lower. For extended storage, store at -18°C (0°F) or lower. Process exposed film promptly.

Store processed film according to the recommendations in ISO 18911:2010, *Imaging Materials - Processed Safety Photographic Films - Storage Practices*. For medium-term storage (minimum of ten years), store at 25°C (77°F) or lower at a relative humidity of 20 to 50 percent; for extended-term storage (for preservation of material having permanent value), store at 7°C (45°F) or lower at a relative humidity of 20 to 30 percent. For active use, store at 25°C (77°F) or lower, at a relative humidity of 50 +/- 5 percent. This relates to optimized film handling rather than preservation; static, dust-attraction and curl-related problems are generally minimized at the higher relative humidity. After usage, the film should be returned to the appropriate medium- or long-term storage conditions as soon as possible

RECOMMENDED CONTROL GAMMA

This film should be developed to a recommended control gamma of 2.90 to 3.20 (Status M Densitometry with a blue filter).

PROCESSING

The following process recommendations should be used as starting points for most conventional continuous-immersion processors with solutions prepared according to the formulas in KODAK Publication No.H-24.15, *Manual for Processing KODAK Motion Picture Films, Module 15*. The processing times may require modification for a particular machine.

Note: Observe precautionary information on product labels and on the Material Safety Data Sheets.

Processing Step	Temperature	Time	Replenishment Rate (mL per 100 ft)
KODAK Developer D-97*	70 +-0.5 F (21 +-0.3 C)	-†	650 (D-97R)
Stop Rinse‡	70 +-2 F (21 +-1 C)	50 sec	12,000
KODAK Fixing Bath F-5*	70 +-2 F (21 +-1 C)	9 min	600
Wash (counter-current)	70 +-2 F (21 +-1 C)	10 min	12,000
Dry	95 F (35 C)	-¶	

* Agitation in the developer and fixing bath should be by recirculation through submerged spray jets that impinge on the film strands.
† Develop to recommended control gamma.
‡ Countercurrent flow of fixer-laden water overflow from the wash tank, pH about 6.
¶ Many factors affect the drying: air temperature, relative humidity (RH); volume, rate and distribution of the air flow; final squeegeeing, etc.

In a conventional convection-type drying cabinet with air at about 95°F (35°C) and 40 to 50 percent RH, drying will take 15 to 20 minutes. With an impingement-type drying cabinet, however, with a higher temperature and lower RH, drying time is greatly reduced. With either type of dryer, the film should be dry without tackiness 1/2 to 2/3 of the way through. Upon cooling to room temperature after leaving the dryer, the film should be in equilibrium with the room air at approximately 50 percent RH.

IDENTIFICATION

After processing, the product code numbers 5363, emulsion and roll identification, and KEYKODE product symbol (EX) are visible along the length of the film.

IMAGE STRUCTURE

The modulation-transfer curves, the diffuse rms granularity, and the resolving-power data were generated from samples of 5363 Film exposed with tungsten light and processed as recommended in Process D-97 at 70°F (21°C) to the recommended control gamma. For more information on image-structure characteristics, see KODAK Publication No. H-1, *KODAK Motion Picture Film*.

rms Granularity

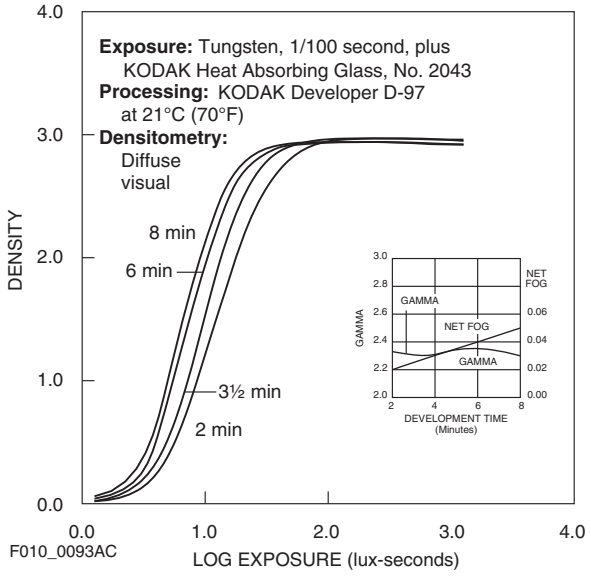
Read with a microdensitometer using a 48-micrometer aperture.

Diffuse rms Granularity		10
Resolving Power*	TOC 1.6:1	80 lines/mm
	TOC 1000:1	200 lines/mm

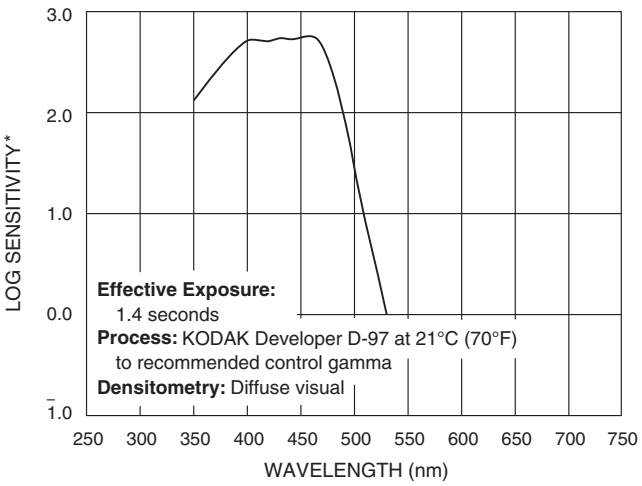
* Determined according to a method similar to the one described in ISO 6328-1982, *Photography — Photographic Materials — Determination of ISO Resolving Power*.

CURVES

Characteristic Curves



Spectral Sensitivity Curves



*Sensitivity = reciprocal of exposure (ergs/cm^2) required to produce specified density

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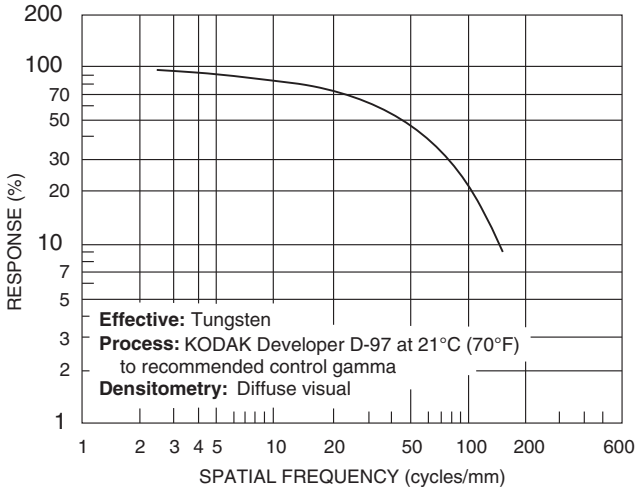
Modulation Transfer Function



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These photographic modulation-transfer values were determined by using a method similar to the one described in ANSI Standard PH2.39-1977(R1990). The film was exposed with the specified illuminant to spatially varying sinusoidal test patterns having an aerial image modulation of a nominal 35 percent at the image plane, with processing as indicated. In most cases, the photographic modulation-transfer values are influenced by development-adjacency effects and are not equivalent to the true optical modulation-transfer curve of the emulsion layer in the particular photographic product.

NOTICE: The sensitometric curves and data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply directly to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Eastman Kodak Company. The company reserves the right to change and improve product characteristics at any time.

AVAILABLE ROLL LENGTHS

For information on film roll lengths, check the *KODAK Motion Picture Film Price Catalog* or see a Kodak sales representative in your country.

MORE INFORMATION

Outside the United States and Canada, please contact your Kodak representative. You can also visit our web site at **www.kodak.com/go/motion** for further information. You may want to bookmark our location so you can find us easily the next time.

H-2	*Cinematographer's Field Guide* www.kodak.com/go/fieldguide
H-845	*The Essential Reference Guide for Filmmakers* www.kodak.com/go/referenceguide
H-24	*Manual for Processing KODAK Motion Picture Films, Process ECP--2D Specifications, Module 9A* www.kodak.com/go/h24
H-606	*KODAK Telecine Tool Kit and Reference Manual* www.kodak.com/go/telecine