TI2409 Revised 7-02

KODAK PAGI-SET™ HN Paper
KODAK PAGI-SET™ IR Paper
KODAK PAGI-SET™ LD Paper
KODAK PAGI-SET™ BC4 Material
KODAK PAGI-SET™ RC Phototypesetting Paper

Features / Customer Product Specifications:

Kodak PAGI-SET Products are designed for use in imagesetting/phototypesetting applications. They are matched to a variety of exposure devices.

These products will achieve optimum results in Kodak RA 2000 Developer and Replensisher, diluted 1+4. Satisfactory results can be achieved in many other rapid-access type developers.

HN Paper	• For use in phototypesetting, imagesetting, and modulated scanning equipment having a helium-neon laser (633 nm) as an exposing source. Using modulated scanning equipment; a halftone print exposure may be produced. • High contrast paper; resin coated base • Primarily blue and red sensitive • Extremely black and extremely sharp images provide excellent copy for reproduction
IR Paper	• High contrast, infrared sensitive paper for use in imagesetters, which use a laser diode, emitting light in the infrared area (780 nm). • Lightweight, resin-coated base • Wide exposure and development latitude • Extremely black and extremely sharp images provide excellent copy for reproduction
LD Paper	• A high-contrast, far-red sensitive paper optimized for Accuset 1000 and 1200 imagesetters that use red laser diodes as the exposing source, at wavelengths of 660 to 680 nm. • Extremely black and extremely sharp images provide excellent copy for reproduction • Lightweight, resin-coated base
BC4 Material	• A very fast, high-contrast emulsion coated on 4-mil white opaque polyester, water-resistant base. • Primarily designed for barcode applications using CRT or xenon flash phototypesetters. • Designed for use in high temperature applications and processes. • Provides sharp, black images on an extremely white background, which is ideally suited for barcode and data recording reproduction. • Processed material is extremely flat which facilitates cutting, laminating, handling and preparation of barcode tags or labels.
RC Phototypesetting Paper	• A very fast, high contrast paper coated on a lightweight, resin-coated base. • Primarily designed for CRT phototypesetting equipment. Also compatible with most xenon flash phototypesetters. • Provides sharp, black images on extremely white background; ideally suited for photomechanical reproduction. • Extremely flat processed prints which facilitate cutting, handling, and preparation of photomechanicals.

Safelight Recommendations

KODAK PAGI-SET HN Paper, and LD Paper

Total darkness is preferred. If a safelight must be used, use an EncapSulite T30/ND1.5 fluorescent safelight filter or equivalent. Keep the paper at least 1.2 meters (4 feet) from the safelight.

KODAK PAGI-SET IR PAPER

Use an EucapSulite T20/0.75nd safelight filter or equivalent. Keep He paper at least 1.2 meters (4 feet) from He safelight.

KODAK PAGI-SET BC4 Material and RC Phototypesetting Paper

Use a KODAK 1 Safelight Filter / red, with a 15-watt bulb at not less than 4 feet (1.2 meters) from the material.

Shorter safety times, but brighter darkroom operating conditions, may be obtained with a KODAK 1A Safelight Filter / light red.

Longer safety times, but darker operating conditions, may be obtained with a KODAK 2 Safelight Filter / dark red.

Storage

Keep unexposed film and processed film in a cool, dry place, preferably at a temperature of 70°F (21°C) or lower and 50% RH. Process film as soon as possible after exposure.

Note: Rewrap unused product in the inner wrap to help protect it from changes caused by humidity variation. This is important if flatness is desired.

Exposure

Variations in equipment and in methods of use preclude exact exposure recommendations. Follow the equipment manufacturer's setup procedures to optimize exposures. Minor adjustments may have to be made in the light intensity of the exposing source when changing from one emulsion number to another. These products will produce consistent results within a particular emulsion number after the optimum exposure has been determined by trial. Set up starting points can be obtained from your Kodak Polychrome Graphics supplier

Image Quality Characteristics

Resolving Power

Exposure	ISO-RP (TOC 1000:1)
PAGI-SET RC Phototypesetting Paper	
P-11 Phosphor Simulation	110 lines/mm
P-47 Phosphor Simulation	140 lines/mm
PAGI-SET BC4 Material	
P-11 Phosphor Simulation	110 lines/mm
P-47 Phosphor Simulation	140 lines/mm
PAGI-SET LS Paper	
PX-58 Phosphor Simulation	220 lines/mm
P-31 Phosphor Simulation	250 lines/mm

Determined according to ISO Standard.

Mechanized Processing

> **NOTICE:** Observe precautionary information on product labels and on the Material Safety Data Sheets.

These products can be processed in equipment with mechanical switches or ultrasonic sensors. More details are available from your Kodak Polychrome Graphics representative or distributor.

> **Note:** Do not use equipment with infrared detectors with the IR products. It may be possible to use infrared detectors with some of the other products.

The following recommendations provide a range of acceptable developer times and temperatures. Higher development temperatures require shorter development times. Generally, times and temperatures near the center of the specified range will produce optimum results for the product.

However, criteria other than the development time may dictate the acceptable processing speed for any particular processor. Within the range given, a development time should be selected that will provide sufficient fixing, washing and drying of the product.

> **Note:** For proper paper transport when processing roll products, a leader material should be used when possible.

Use KODAK RA 2000 Developer and Replenisher (1:4 dilution) for 20 to 45 seconds at a temperature of 85 to 105°F (30 to 40°C). The recommended starting point is 30 seconds at 95°F (35°C).
The 1:2 dilution ratio may be used when intermixing with KODAK 2000 Films.

KODAK RA 2000 Developer and Replenisher (1:4 dilution)

Average D-max Area	Basic Replenishment Rate
20%	350 ml/m² (0.20 ml/sq. in)
50%	465 ml/m² (0.30 ml/sq. in)
80%	600 ml/m² (0.48 ml/sq. in)

If utilization rate will provide at least one tank turnover per week, KODAK RA 2050 Developer Replenisher can be used with lower replenishment rates. See the Film Area Factor (FAF) calculations for RA 2050 Developer Replenisher in TI2536 to determine whether this replenisher can be used.

When using Kodak RA 3000 fixer and replenisher 1:3 (Part A) He basic fixer replenishment rate is 185 ml/m² (0.12 ml/sq. in) for processing papers only and 540 ml/m² (0.35 ml/sq. in) when processed with Recording 2000 Films. Part B (hardener) may be used at dilutions up to 3 parts in a 1000 (using *diluted* fixer) where film drying problems are being encountered, or where additional protection from post-process abrasions are required.

For batch type processors, where ready-to-use solutions are required, KODAK RA 2001 Developer and KODAK 3001 Fixer are recommended.

Data Sheet

1). Support

BC4 Material	4 mil (0.0041 in., 0.103 mm)	White opaque polyester, water-resistant base
HN, IR, LD, RC Papers	4.4 mil (0.0044 in., 0.112 mm) (Total Caliper)	Lightweight resin coated paper

2). Graphs[1]

These graphs are designed to be printed in landscape mode. They will print properly on most printers in their current page set-up of 100%. However, some printers may require adjustments to the browser page set-up in order to have the graph print on a single 8 1/2 x 11-inch sheet of paper.

Characteristic

A) KODAK PAGI-SET HN Paper (6-96)
B) KODAK PAGI-SET IR Paper (6-96)
C) KODAK PAGI-SET LD Paper (7-93)
D) KODAK PAGI-SET BC4 Material (4-96)
E) KODAK PAGI-SET RC Phototypesetting Paper (12-9)

Spectral Sensitivity

F) KODAK PAGI-SET HN Paper (8-89)
G) KODAK PAGI-SET IR Paper (8-90)
H) KODAK PAGI-SET LD Paper (7-93)
I) KODAK PAGI-SET BC4 Material (4-96)
J) KODAK PAGI-SET RC Phototypesetting Paper (9-84)

[1] **NOTICE:** While the data presented are typical of production coatings, they do not represent standards that must be met by Kodak Polychrome Graphics. Varying storage, exposure, and processing conditions will affect results. The company reserves the right to change and improve product characteristics at any time.

The products mentioned in this document may not all be available in all regions or countries. If you have questions or need assistance, contact your local Kodak Polychrome Graphics representative or visit our website: www.kpgraphics.com.

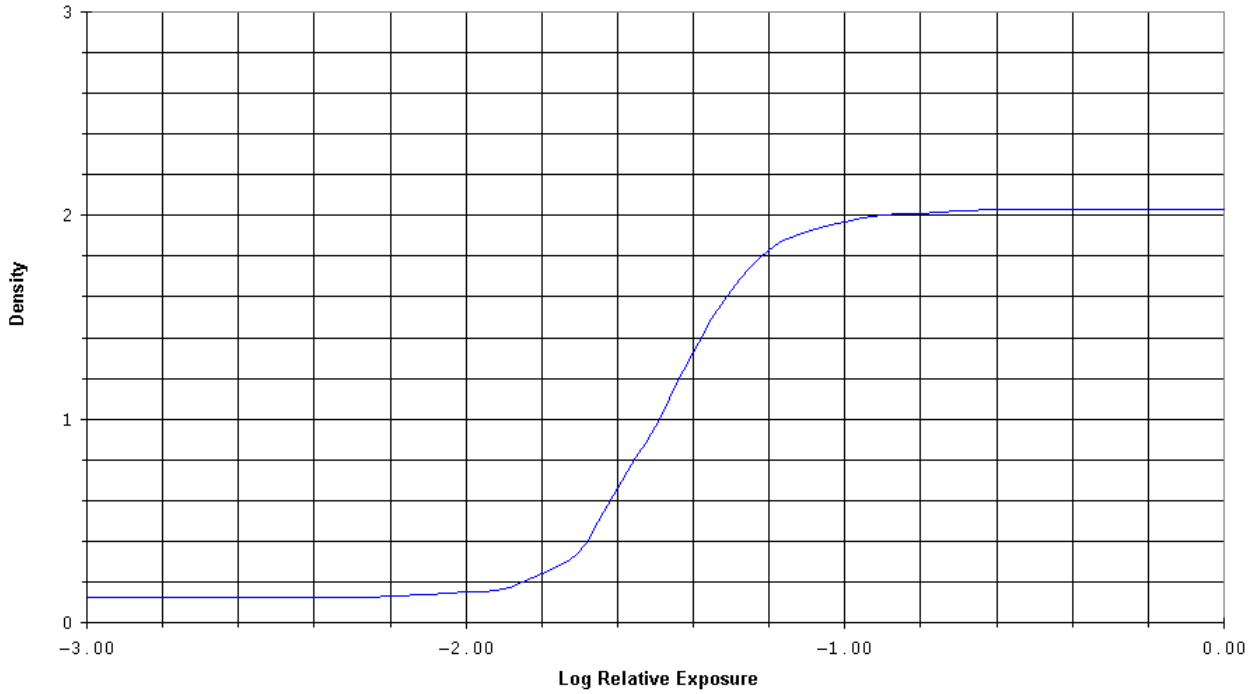
The contents of this publication are subject to change without notice.

Kodak Polychrome Graphics LLC
Norwalk, CT 06851
USA

END OF DATA SHEET

TI2409B 06-96
CHARACTERISTIC, For Publication

KODAK PAGI-SET HN Paper
Autokon (Helium Neon Laser) Autopan 50 G,
KODAK RA 2000 Developer (1:4),
30 sec, 90F (32C)



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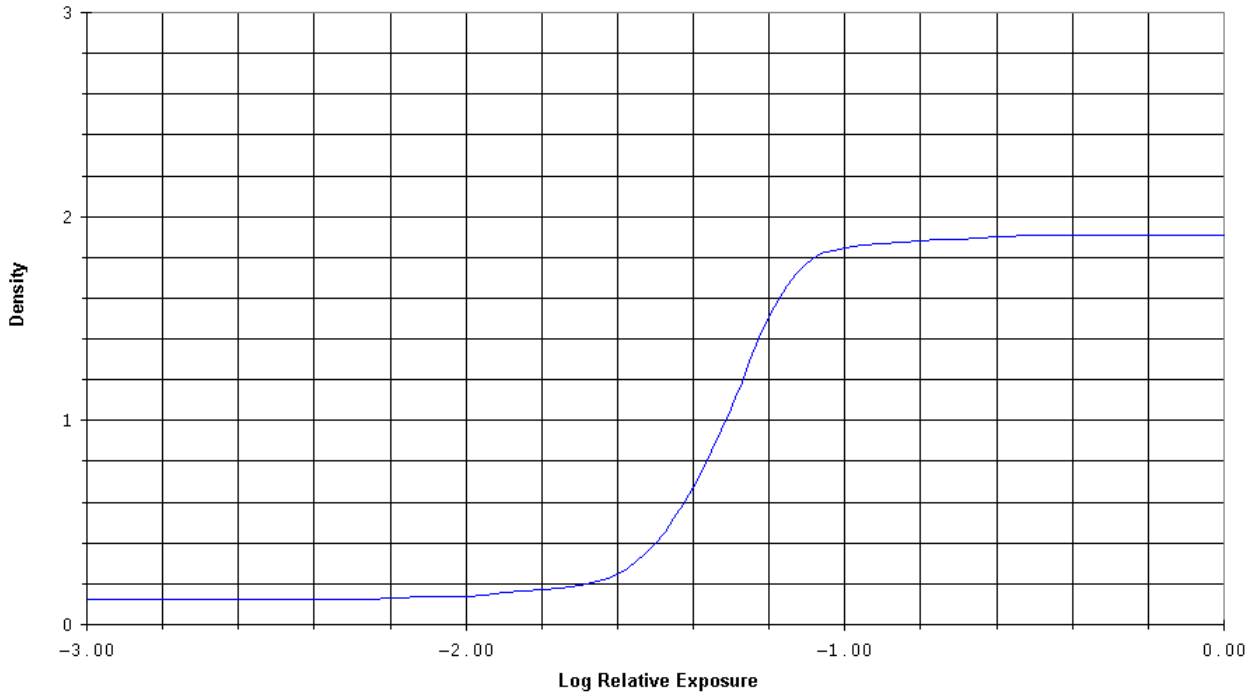
TI2409D 06-96
CHARACTERISTIC, For Publication

KODAK PAGI-SET IR Paper
Autokon (IR-@780nm) Autopan 50G;
KODAK RA 2000 Developer and Replenisher (1:4),
30 sec, 90F (32 C); Diffuse visual



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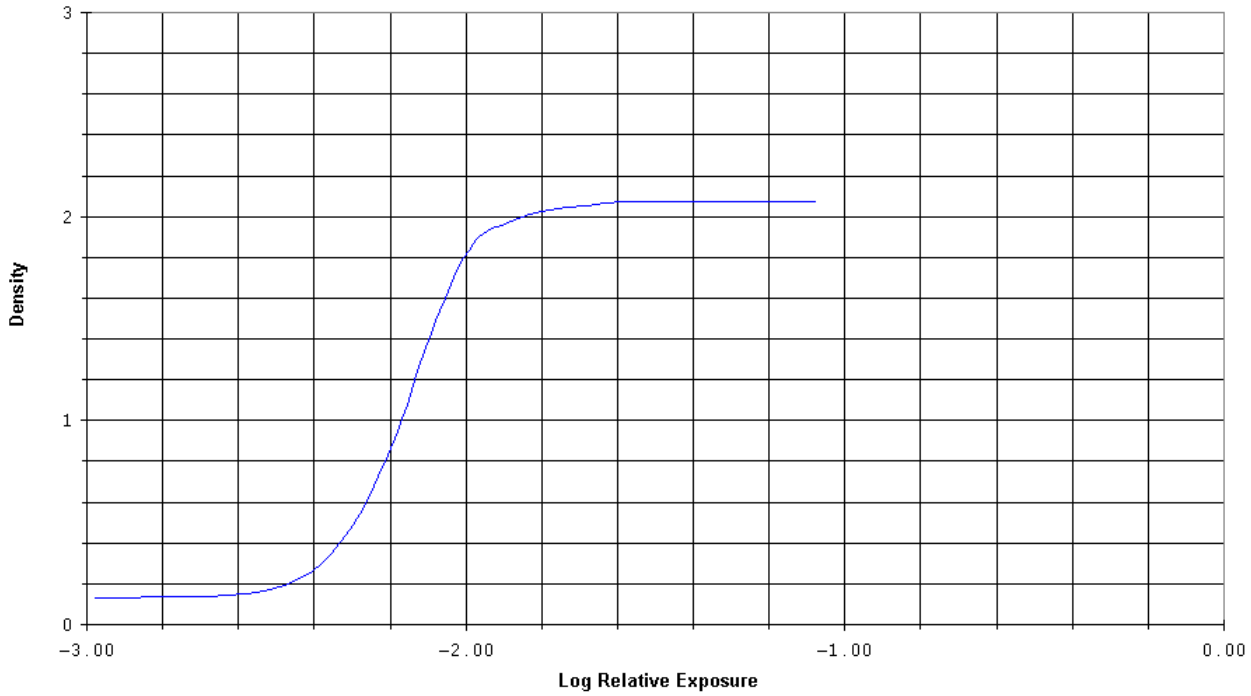
TI2409F 07-93
CHARACTERISTIC, For Publication

KODAK PAGI-SET LD Paper
KODAK RA 2000 Developer and Replenisher (1:4)
KODAK KODAMATIC 710 Processor,
30 sec at 95F (35C); Diffuse visual



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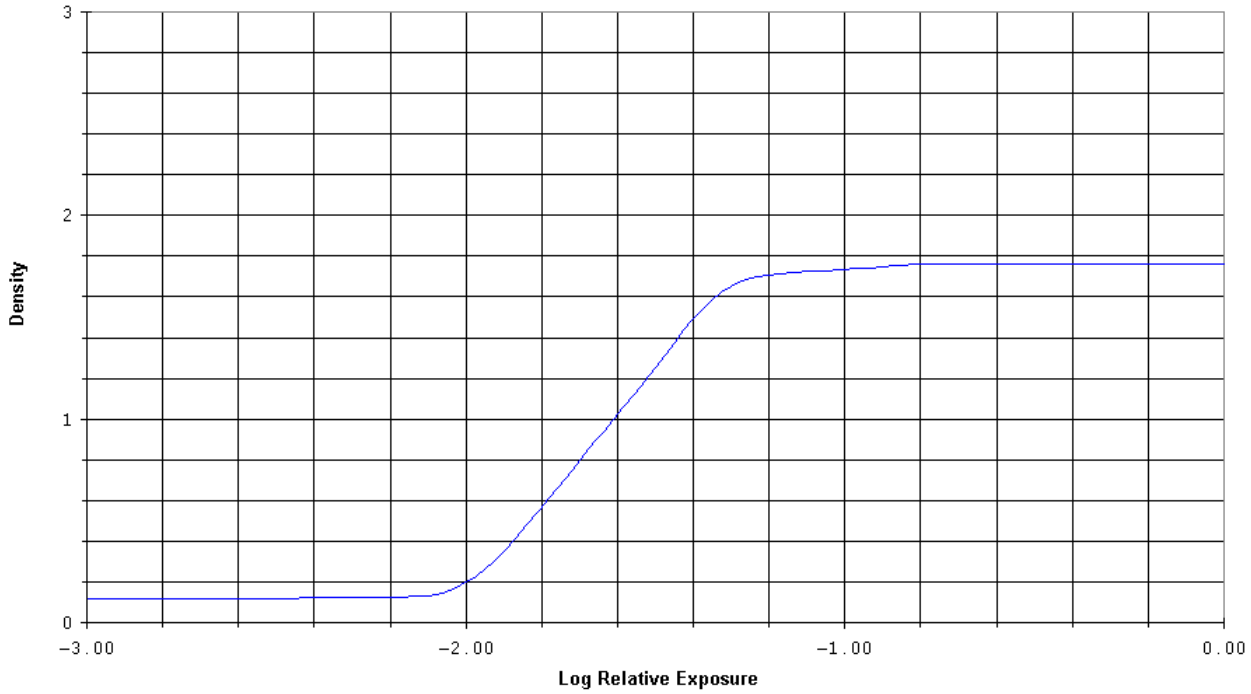
TI2409G 04-96
CHARACTERISTIC, For Publication

KODAK PAGI-SET BC4 Material
MFX - Xe/P11 Autopan 50G, KODAK RA 2000
Developer and Replenisher (1:4), 30 sec, 90F (32C)



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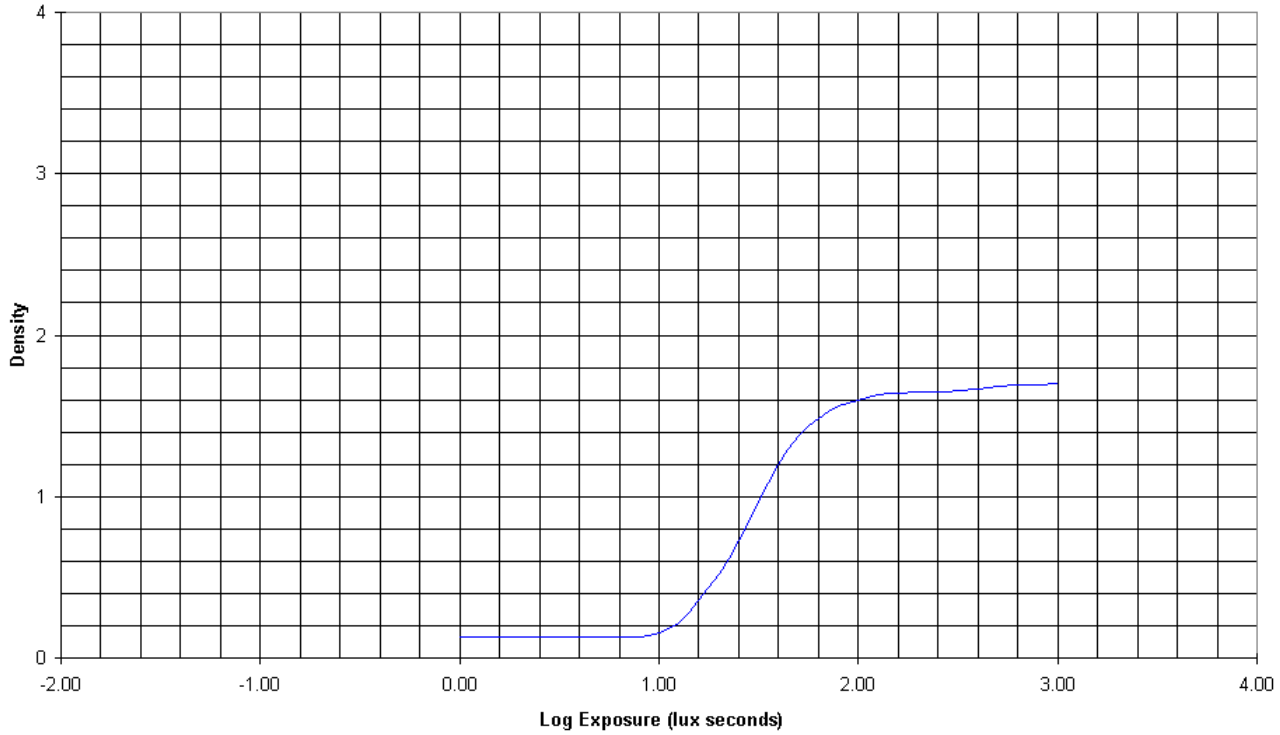
TI2409I 12-91
CHARACTERISTIC, For Publication

KODAK PAGI-SET RC Phototypesetting Paper
MFX - Xe/P11
Autopan50G, KODAK RA 2000 Developer and Replenisher (1:4), 30 sec, 90F(32C)



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TI2409K 08-89
SPECTRAL SENSITIVITY, For Publication

KODAK PAGI-SET HN Paper
Effective exp 1/2 sec; All recommended developers;
D=1.7>D-min

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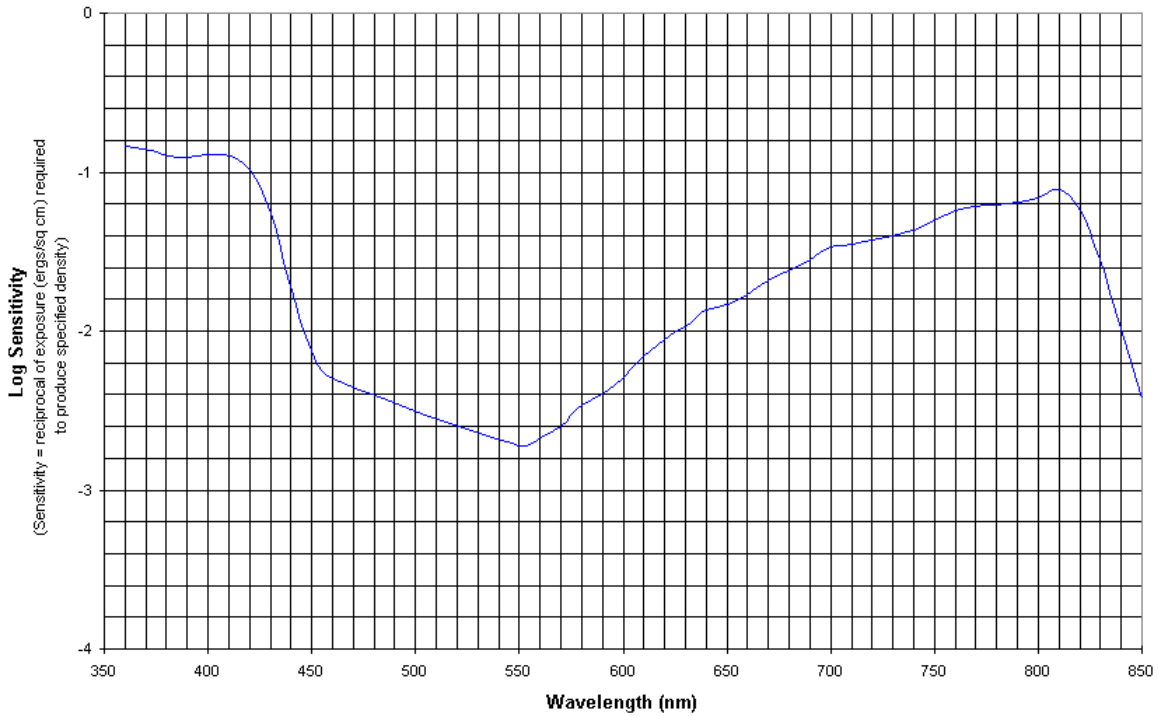
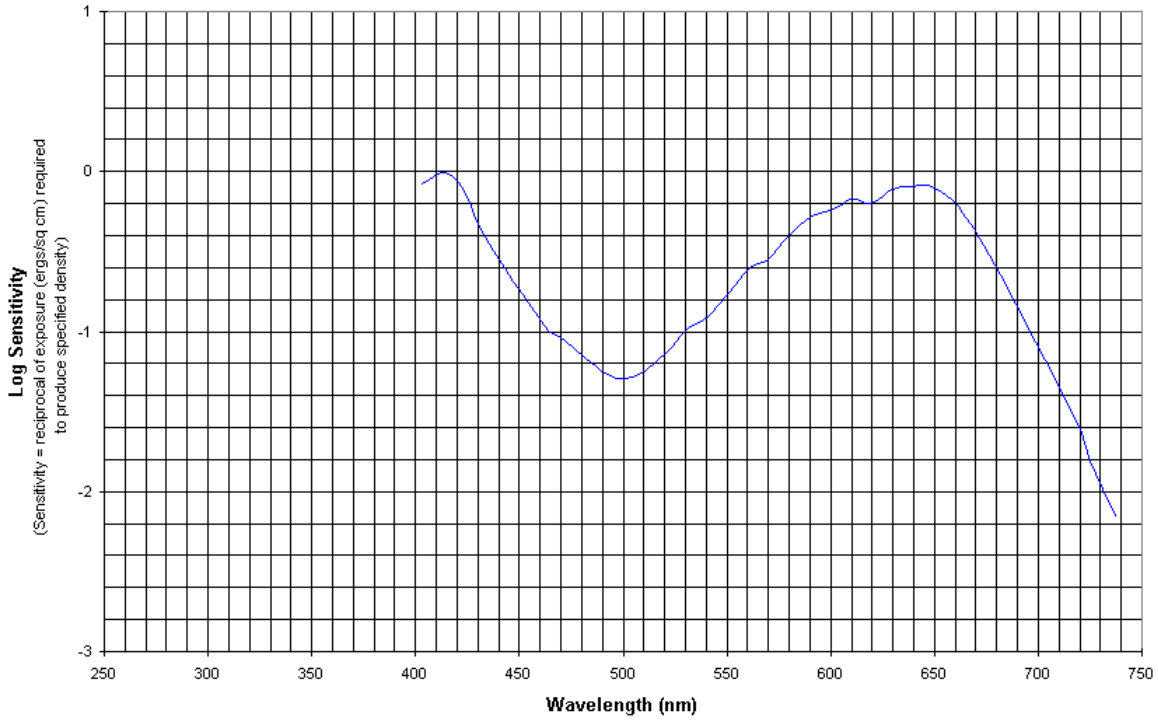
TI2409M 08-90
SPECTRAL SENSITIVITY, For Publication

KODAK PAGI-SET IR Paper
IR Laser-diode exposure;
KODAK RA 2000 Developer and Replenisher (1:4),
30 sec, 35C (95F); Diffuse visual



TI2409O 7-93
SPECTRAL SENSITIVITY, For Publication

KODAK PAGI-SET LD Paper
Exposure: 0.5 sec; KODAK RA 2000
Developer and Replenisher (1:4), D=0.6>D-min, Diffuse visual



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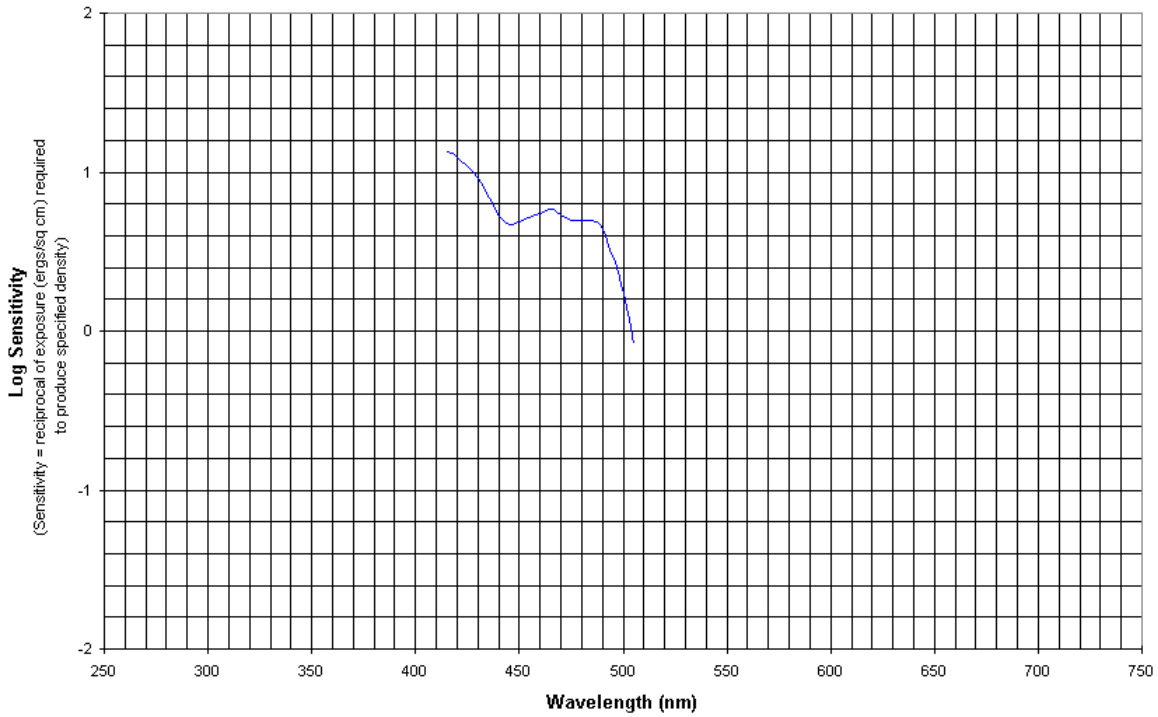
TI2409P 04-96
SPECTRAL SENSITIVITY, For Publication

KODAK PAGI-SET BC4 Material
All Recommended Developers;
D=1.0>Background



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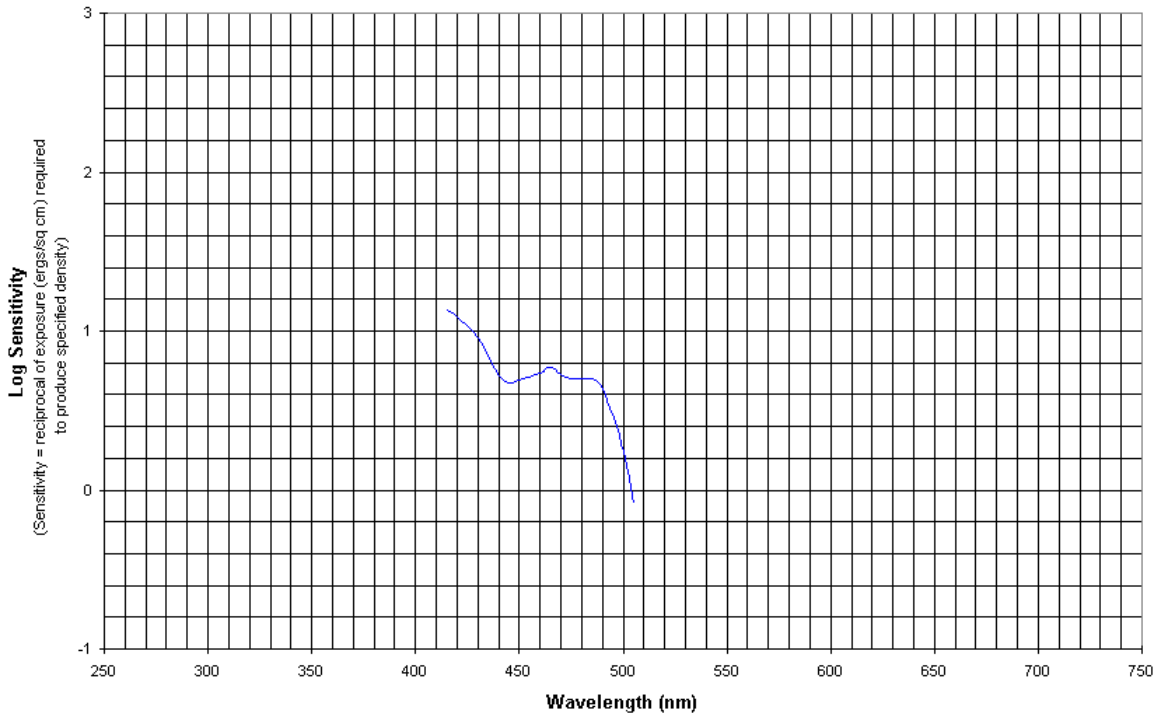
TI2409R 6-86
SPECTRAL SENSITIVITY, For Publication

KODAK PAGI-SET RC Phototypesetting Paper
All Recommended Developers; D=1.0>Background; For Publication



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