



TI2065

Revised 7-95

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KODAK INSIGHT Pediatric Imaging Film / 6228

1) Description

KODAK INSIGHT Pediatric Imaging Film / 6228 is optimized specifically for neonatal and pediatric radiography. The Film/Screen/Cassette System exhibits the lowest image noise possible with resulting improved visibility of finite structures in very small patients. The Film/Screen system takes advantage of reduced exposure with the KODAK X-OMATIC L.A. Cassette. INSIGHT Pediatric Film has symmetrical T-grain emulsion technology with absorbing dyes that reduce screen-light crossover to zero. This creates two image receptors which have unique properties. 6228 Film is coated on a blue, 7 mm, ESTAR Base support that has a base density of approximately 0.20. This film features improved static protection. When used as designed with KODAK INSIGHT Pediatric Imaging Screens, KODAK INSIGHT Pediatric Imaging Film / 6228 is the same speed as KODAK T-MAT L / 4518 Film and KODAK LANEX Medium Screens. It is processable in existing Standard, Rapid, and KWIK processing cycles.

2) Safelight

Use a KODAK GBX-2 Safelight Filter with a frosted 15-watt bulb located at least 4 feet from the film.

3) Storage and Handling

Handling -

Hands must be clean, dry and free of lotions, etc. Film should be handled carefully by the edges to avoid physical strains such as pressure, creasing, or buckling.

Storage -

Store unexposed film at 50 to 70 F (10 to 20 C), at 30 to 50 percent RH, and properly shielded from x-rays, gamma rays, or other penetrating radiation. Keep exposed film in a cool, dry place that is properly shielded from penetrating radiation. Process as soon as possible after exposure. Processed film should be stored at 60 to 80 F (16 to 27 C), at 30 to 50 percent RH.

4) Sensitometric Parameters

Relative Speed:	Measured at a density of 1.00 above gross fog.
Lower Scale Contrast:	Measured as slope of the line between densities of 0.25 and 1.00 above gross fog.
Upper Scale Contrast:	Measured as slope of the line between densities of 1.15 and 2.50 above gross fog.
Gross Fog:	Density of film base plus processing fog.

5) Process Variations

Changes to speed, contrast, and fog as a result of temperature variation from normal are included in GRAPHS Section.

6) Intermix

This film can be processed with intermixes of common medical x-ray films.

Variations of bromide and iodide ions in KODAK RP X-OMAT Developer cause sensitometric speed effects that are significantly different for T-MAT Films than for conventional films; GRAPH included.

7) Automated Processing

Processors -

The following processors are recommended with KODAK RP X-OMAT Chemicals using the standard process cycle:

KODAK RP X-OMAT Processor, Model M7 Series

KODAK X-OMAT Processor, Model M4 Series

KODAK RP X-OMAT Processor, Model M8

KODAK X-OMAT M20 and M35 Processor

KODAK RP X-OMAT Processors, Models M5, M6

8) Emergency Manual Processing

(Not recommended for regular use, but can be used when automated processor fails)

Solution/Step	Temperature	Time	Agitation
KODAK RP X-OMAT Developer working solution	80 F (26.5 C)	1 min	No agitation. Tap hanger immediately after immersion to remove film surface air bubbles.
KODAK Indicator Stop Bath OR Running Water Rinse	80 F (26.5 C)	20 sec	Continuous, moderate
KODAK RP X-OMAT Fixer and Replenisher	80 F (26.5 C)	1 min	Vigorous at start
Running water wash ¹ (8 volume changes/hour)	80 F (26.5 C)	5 min	---
Dry	120 F (49 C)	---	---

¹ KODAK PHOTO-FLO Solution may be used after washing to minimize water spots and drying marks.

NOTICE! Observe precautionary information on product labels and on the Material Safety Data Sheets.

9) Image Structure

Modulation Transfer Function -
 GRAPH included.

Diffuse rms Granularity -

GRAPH included; read at net diffuse visual densities from 0.5 to 2.0, 48-micrometre aperture.

10) Graphs¹

Characteristic:

- A) RP X-OMAT Chemicals (6-95)
- B) RP X-OMAT Developer, Temperature Series (6-95)

Reciprocity:

- C) (8-93)

Process Variations from Normal Processing Temperature:

- D) Speed (8-93)
- E) Contrast (8-93)
- F) Fog (8-93)

rms Granularity:

- G) (6-93)

Safelight Sensitivity:

- H) (8-93)

Drying:

- I) (8-93)

Spectral Sensitivity:

- J) (6-93)

Bromide Effects:

- K) (6-93)

MTF:

- L) (6-93)

NOTE: The Kodak materials described in this publication for use with KODAK INSIGHT Pediatric Imaging Film / 6228 are available from dealers who supply Kodak products. You can use other materials, but you may not obtain similar results.

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

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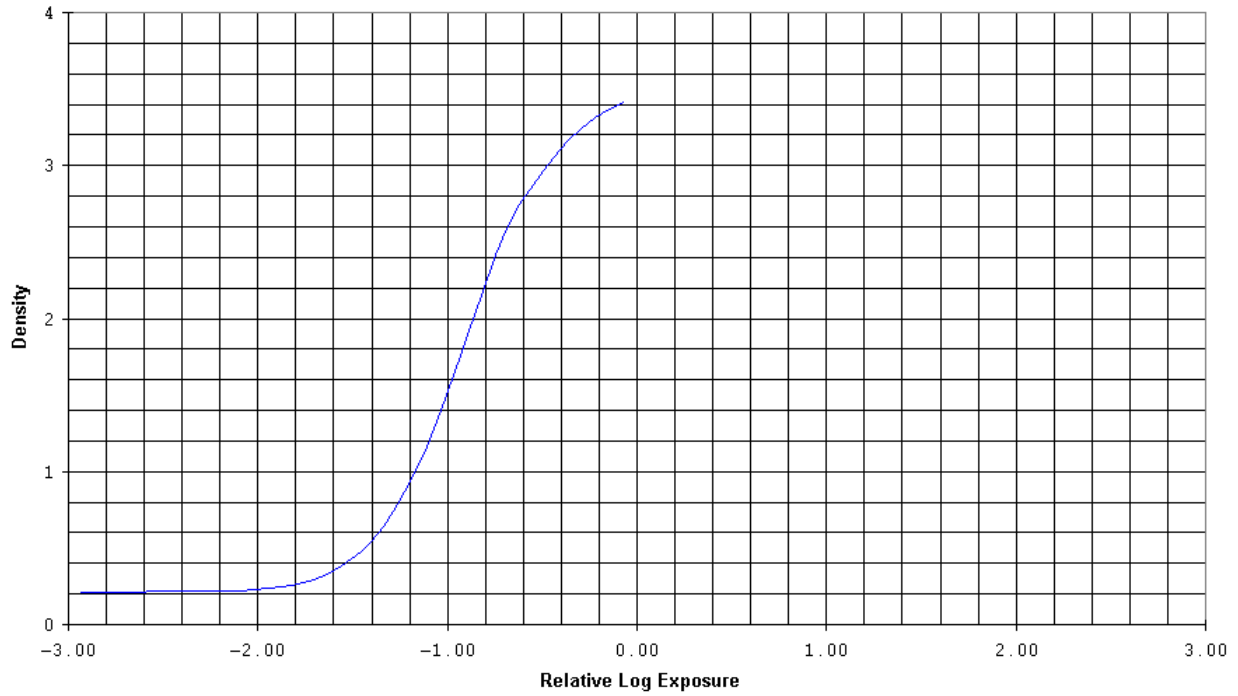
Health Imaging
EASTMAN KODAK COMPANY - Rochester, NY 14650

End of Data Sheet

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

TI2065A 6-95
CHARACTERISTIC, For Publication

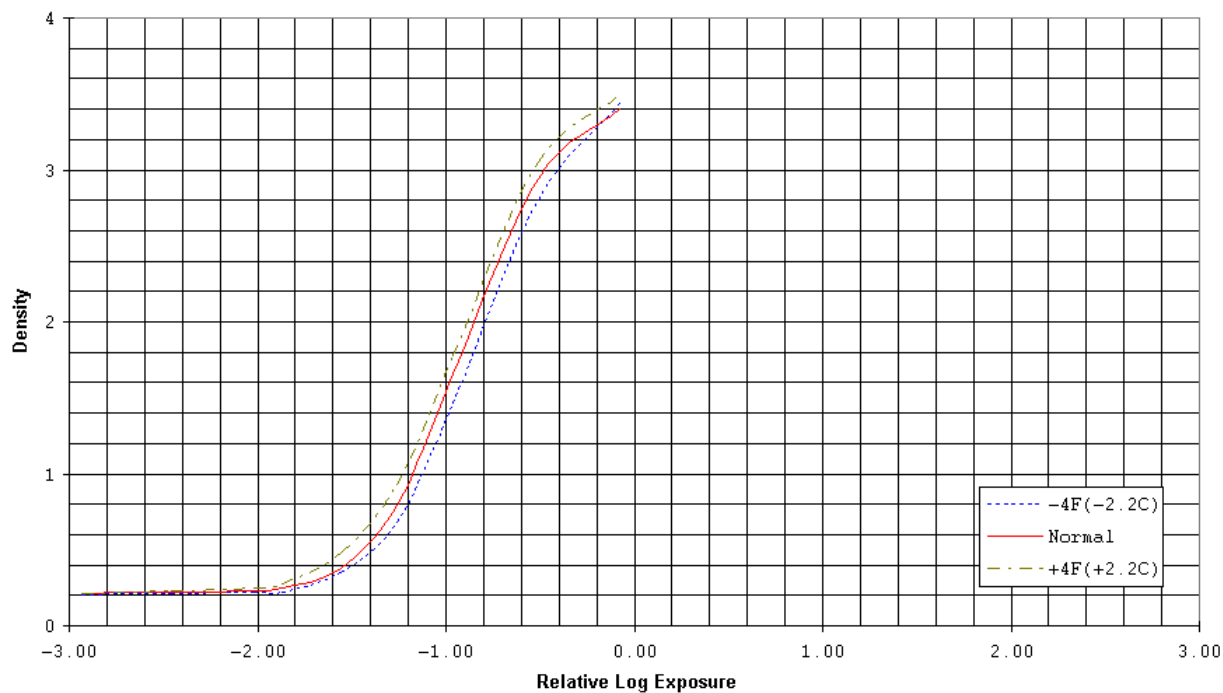
KODAK INSIGHT Pediatric Imaging Film/6228
1/50 second Simulated Green Screen Exposure;
KODAK RP X-OMAT Chemicals, 95 F (35 C)



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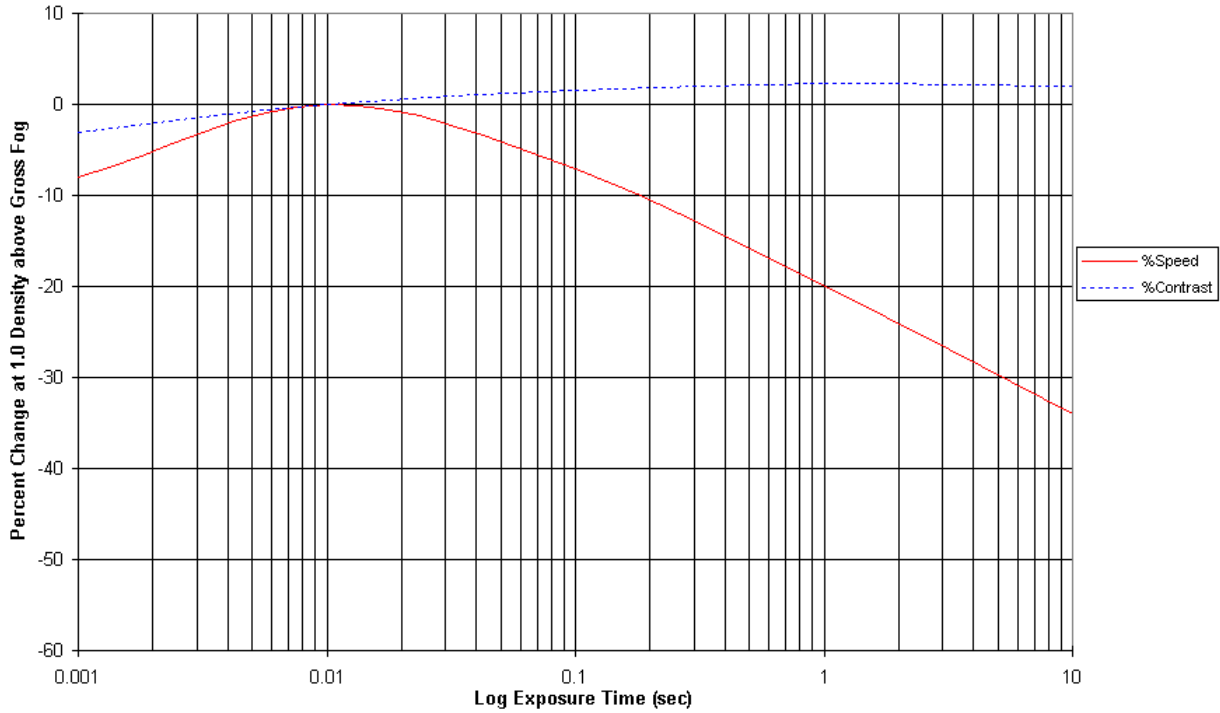
TI2065B 6-95
CHARACTERISTIC, For Publication

KODAK INSIGHT Pediatric Imaging Film/5228
Developer Temperature Series; KODAK RP X-MAT Chemicals



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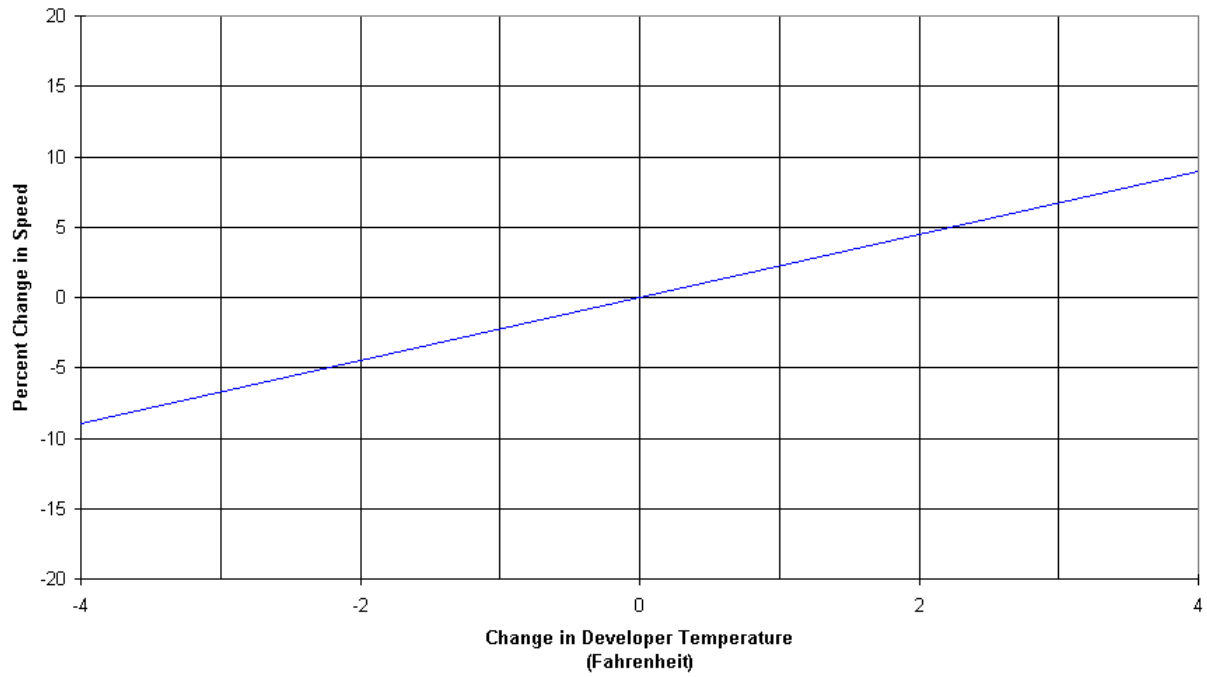
TI2065C 8-93
RECIPROcity, For Publication
KODAK INSIGHT Pediatric Imaging Film/6228
KODAK RP X-OMAT Chemicals, 95F, KODAK RP X-OMAT Processor, Model M6
(Reference: 1/100 second = 0%)



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TI2065D 8-93
TEMPERATURE VARIATION, For Publication

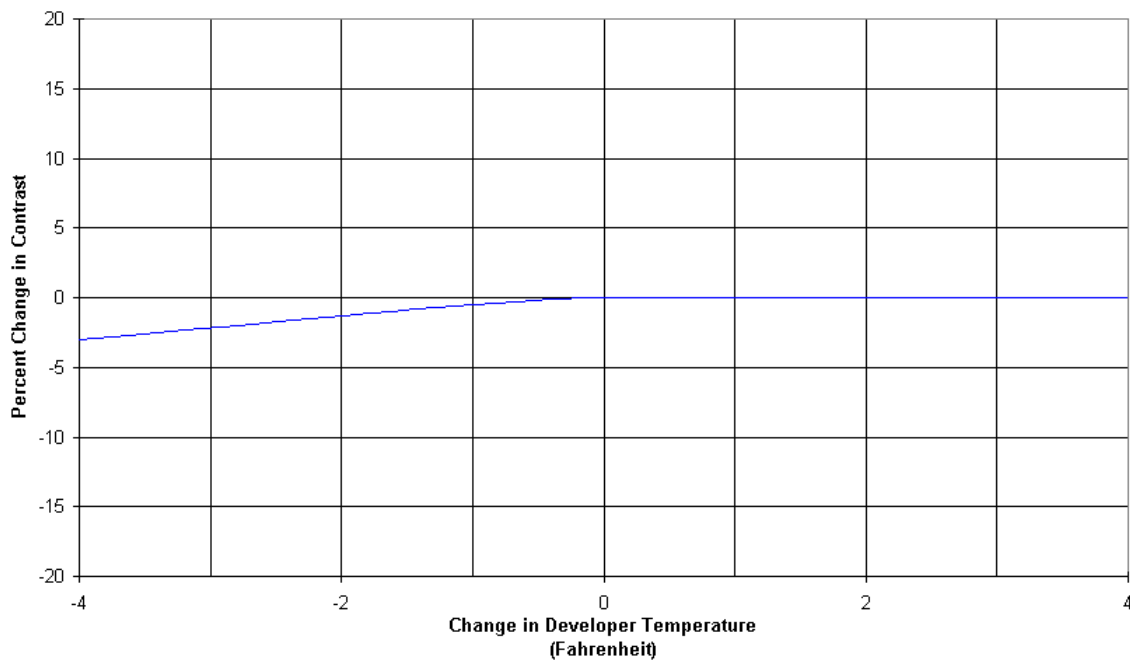
KODAK INSIGHT Pediatric Imaging Film/6228
Percent Change in Relative Speed
KODAK RP X-OMAT Chemicals, KODAK RP X-OMAT Processor, Model M6
(Reference: Normal Temp. = 0% Change)
(4 F = 2.2 C)



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TI2065E 8-93
TEMPERATURE VARIATION, For Publication

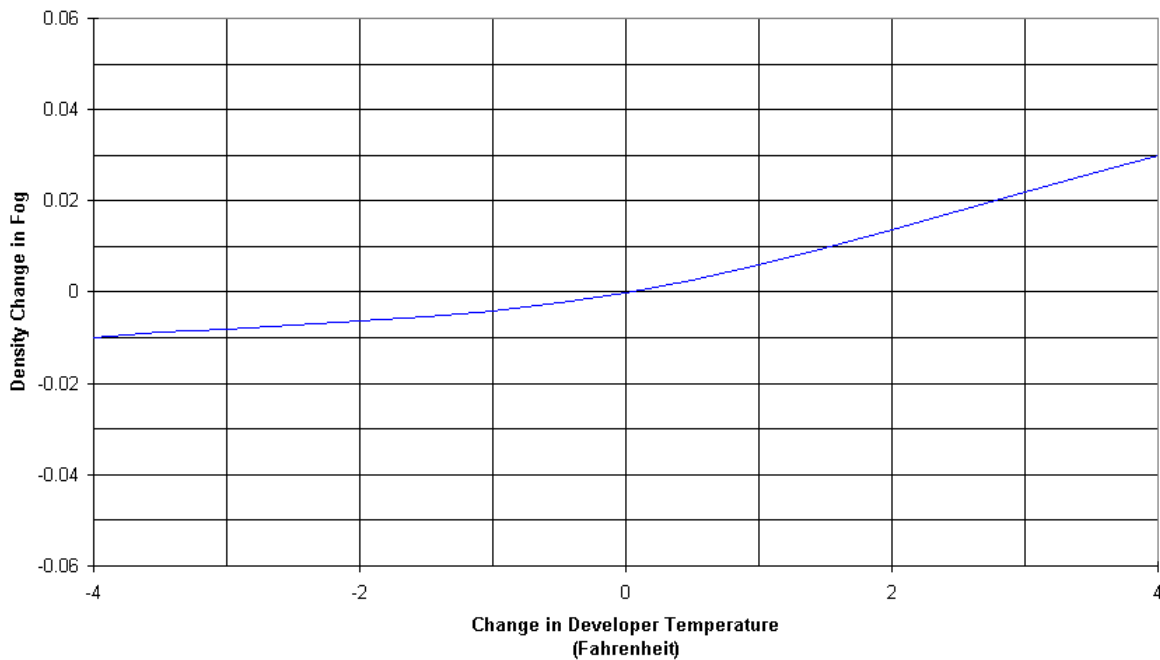
KODAK INSIGHT Pediatric Imaging Film/5228
Percent Change in Contrast
KODAK RP X-OMAT Chemicals, KODAK RP X-OMAT Processor, Model M6
(Reference: Normal Temp. = 0% Change)
(4 F= 2.2C)



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TI2065F 8-93
TEMPERATURE VARIATION, For Publication

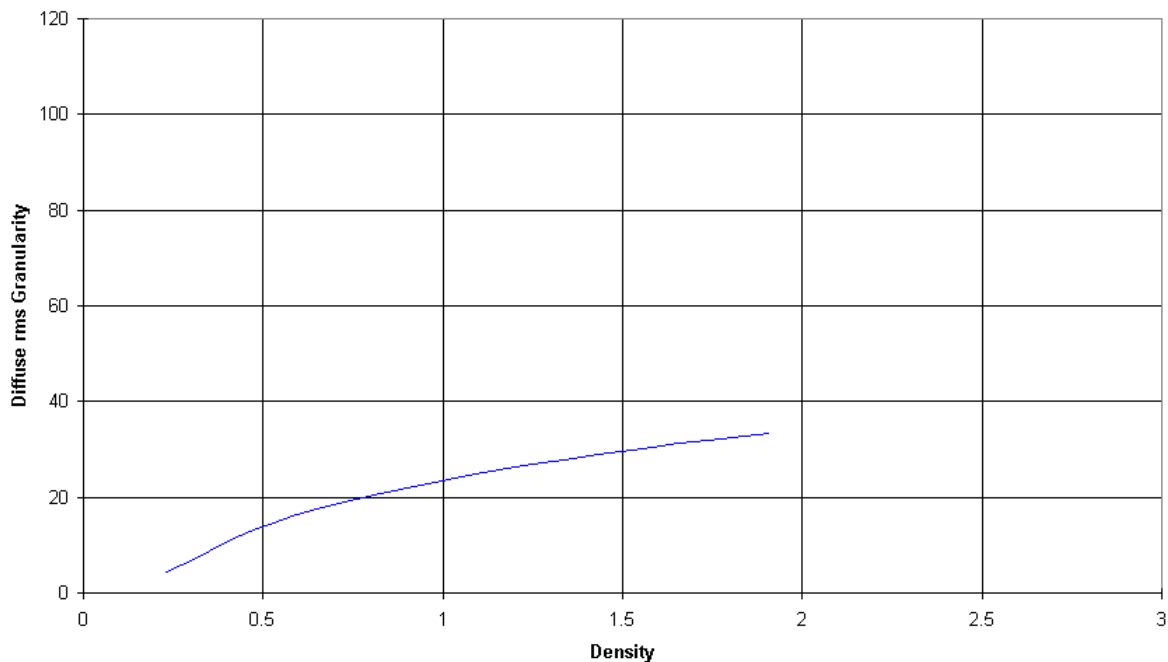
KODAK INSIGHT Pediatric Imaging Film/6228
Density Change in Fog
KODAK RP X-OMAT Chemicals, KODAK RP X-OMAT Processor, Model M6
(Reference: Normal Temp. = 0% Change)
(4 F = 2.2 C)



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TI2065G 6-93
GRANULARITY, For Publication

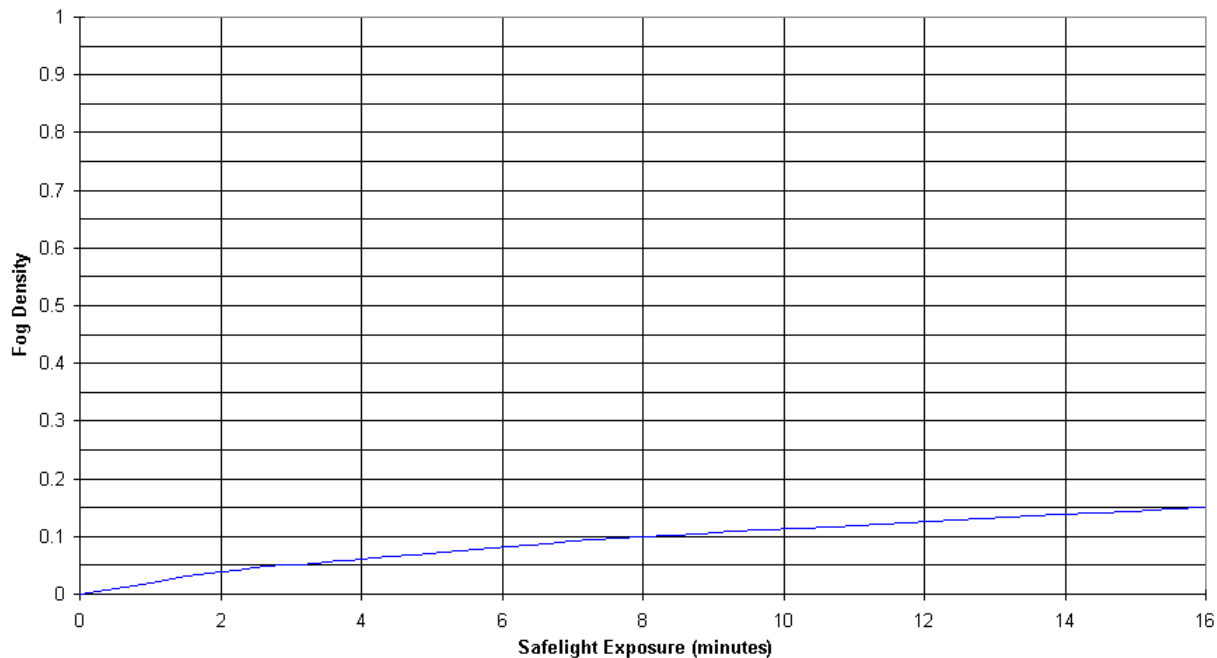
KODAK INSIGHT Pediatric Imaging Film/5228
KODAK RP X-OMAT Chemicals, 95F (35C)



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TI2065H 8-93
SAFELIGHT SENSITIVITY, For Publication

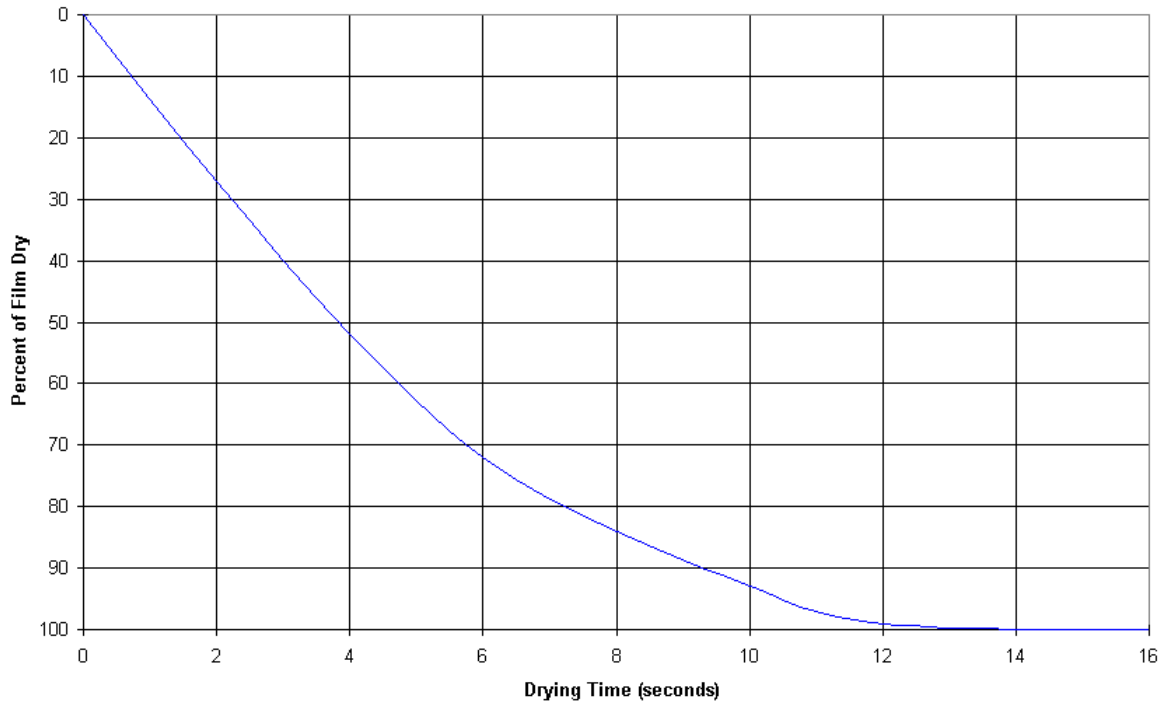
KODAK INSIGHT Pediatric Imaging Film/5228
KODAK GBX-2 Safelight Filter, 15 watt lamp, 48 inches
KODAK RP X-OMAT Processor, Model M6; KODAK RP X-OMAT Chemicals, 96 F
(Fog growth with increasing safelight exposure above a net 1.0 film density)



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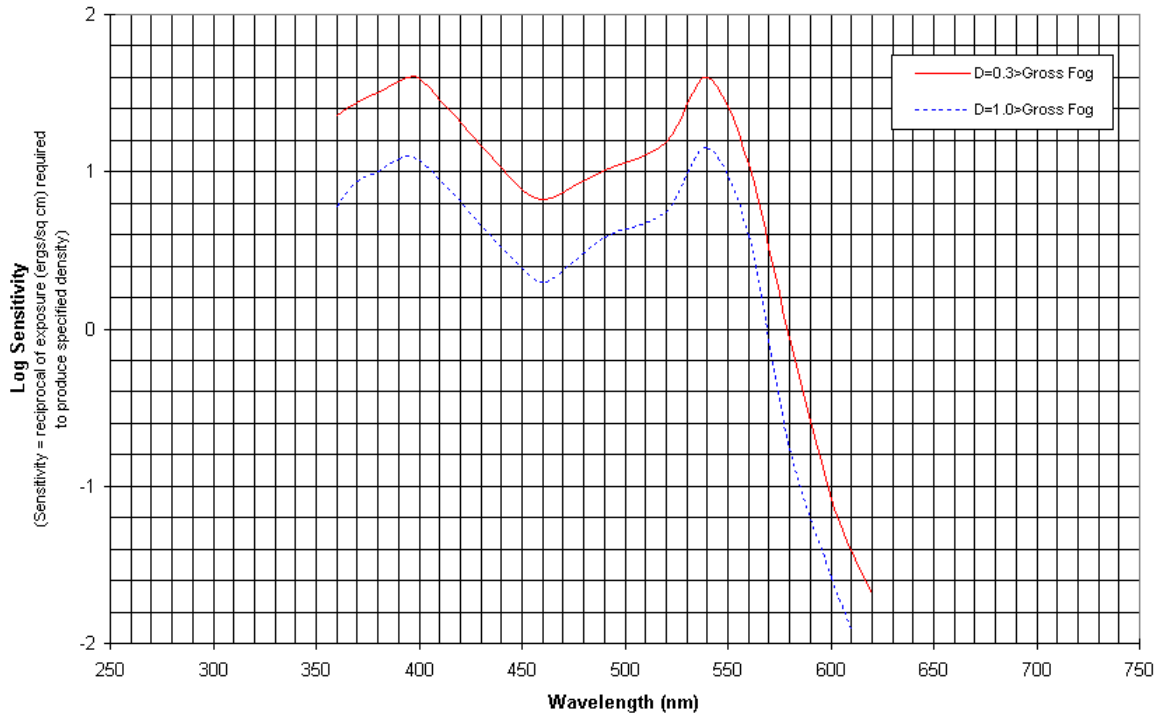
TI2065I 8-93
DRYING, For Publication

KODAK INSIGHT Pediatric Imaging Film/5228
KODAK RP X-OMAT Processor, Model M8
KODAK RP X-OMAT Chemicals, 96 F
Dryer Capacity Used to Dry Film at 125 F



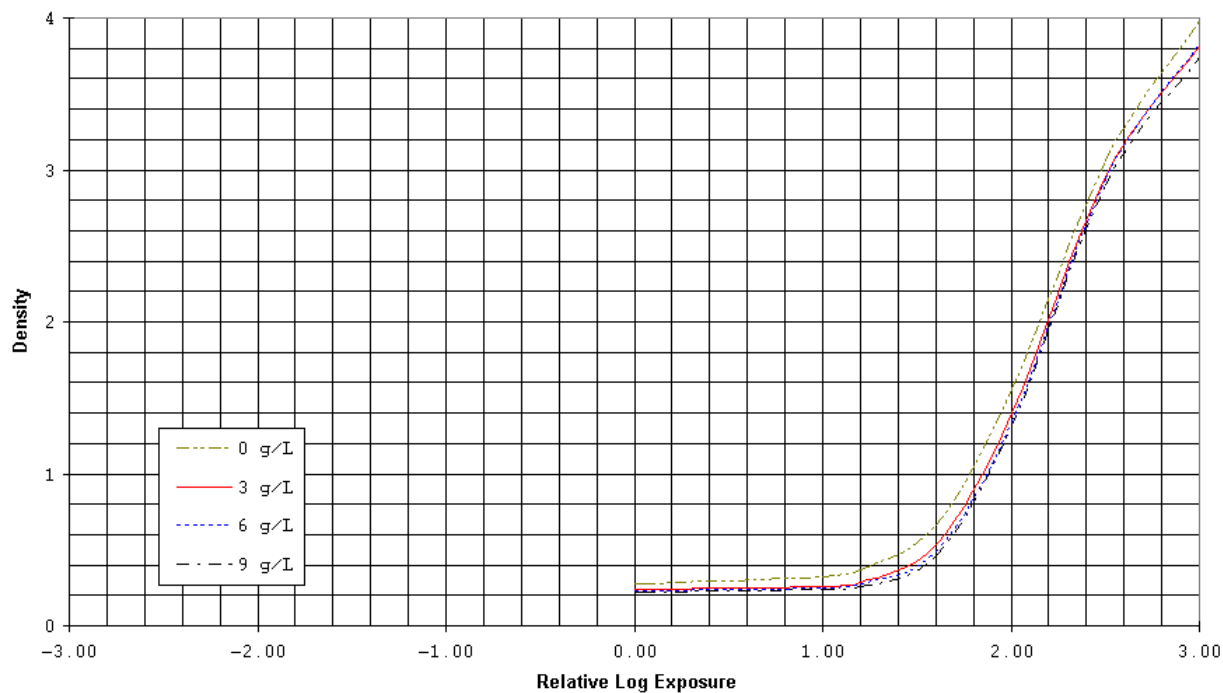
Notice: While the data presented are typical of production coatings, they do not represent standards which must be met by Eastman Kodak Company. Varying storage, exposure and processing conditions will affect results. The company reserves the right to change or improve product characteristics at any time.

TI2065J 6-93
SPECTRAL SENSITIVITY, For Publication
KODAK INSIGHT Pediatric Imaging Film/6228
KODAK RP X-OMAT Chemicals, 95 F (35 C);
Effective Exposure 1.4 sec



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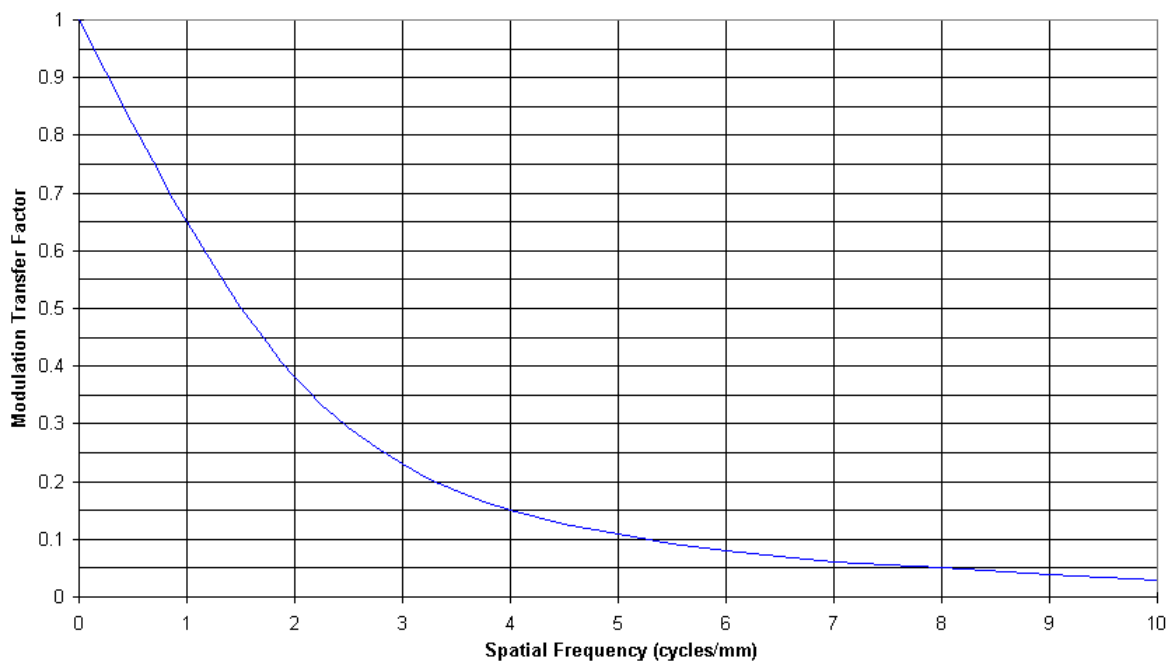
TI2065K 6-93
CHARACTERISTIC, For Publication
KODAK INSIGHT Pediatric Imaging Film/5228
KODAK RP X-OMAT Chemicals, 95 F (35 C)



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TI2065L 6-93
MTF, For Publication

KODAK INSIGHT Pediatric Imaging Film/6228
Exposure: 50 kV, 1.62 mm Aluminum plus 0.13 mm Copper filtration.



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