

# KODABROMIDE Paper



**\*\*\*This product is discontinued.\*\*\***  
**Suggested replacement is KODABROME II RC Paper.**

KODABROMIDE Paper is a fast, graded-contrast, black-and-white paper with a fiber base. It is designed for commercial, industrial, professional, and press photography applications. The paper is designed for enlarging, but with reduced illumination, you can use it for contact printing.

It is available in F (contrast grades 2-5) surface in a variety of sheet and roll sizes.

FEATURES	BENEFITS
• Neutral-black image tone	• Exceptional print quality
• White fiber base	• Crisp, clean whites
• High speed	• Short exposure times

## BASE AND SURFACE CHARACTERISTICS

Symbol	Texture	Surface	Base Tint	Base Weight
F	Smooth	Glossy*	White	SW, DW

\* When ferrotyped. This paper dries with a smooth lustre when dried on screens, blotters, or non-ferrotyping dryers.

## Contrast Grades

With this type of negative:	Use paper with this grade number:
Normal contrast	2
Low contrast	3
Very low contrast	4
Extremely low contrast or line work	5

## SAFELIGHT RECOMMENDATIONS

Use a KODAK OC Safelight Filter (light amber) in a suitable safelight lamp with a bulb of 15 watts or less at least 4 feet (1.2 metres) from the paper. Minimize safelight exposure to avoid unwanted quality changes. **Be especially careful** if you use other types of safelights. See KODAK Publication No. K-4, *How Safe Is Your Safelight?*, for information on safelight testing.

**Note: Do not** use a KODAK OA Safelight Filter (greenish yellow).

## STORAGE AND HANDLING

Store paper in a cool, dry place (preferably at or below 21°C [70°F] and at a relative humidity of 30 to 50 percent). High temperatures or high humidity may produce undesirable changes. Always rewrap unused paper in its original packaging (the outer box as well as the inner wrapper) to protect it from light and moisture. Avoid or shield the paper from exposure to radioactivity or x-rays.

## EXPOSURE

### Light Source

Expose this paper with tungsten or tungsten-halogen enlarger lamps. You can use other light sources, such as cool-white fluorescent lamps, mercury-vapor lamps (cold light), or cathode-ray tubes. For best results, make test prints to determine the exposure time for each light source.

## ISO PAPER SPEED AND RANGE

**Tray Processing**—Processed in KODAK DEKTOL Developer (1:2) at 20°C (68°F) for 90 seconds.

Surface & Contrast	ISO Paper Speed	ISO Paper Range
F2	P320	R110
F3	P200	R90
F4	P160	R70
F5	P125	R60

## PROCESSING

### Tray

Tray develop with continuous agitation at 20°C (68°F), using the appropriate dilution and development time recommended in the following table.

**Note:** Machine processing of KODABROMIDE Paper is not recommended.

KODAK Chemical	Dilution (chemical: water)	Time (min:sec)	Capacity (8 x 10-inch Prints per gal/L)
<b>Developer—20°C (68°F)</b>			
DEKTOL (powder)	1:2	1:30	120/32
POLYMAX T	1:9	1:30	120/32
DEKTOL (liquid)	1:9	1:30	120/32
EKTONOL	1:1	1:30	80/21
SELECTOL-SOFT	1:1	1:30	80/21
<b>Stop Bath—18 to 24°C (65 to 75°F)</b>			
Indicator	1:63	0:15	80/20*
EKTAFLO	1:31	0:15	80/20*
<b>Fixer (single bath)†—18 to 24°C (65 to 75°F)</b>			
<b>Non-hardening fixer (for general printing and for toning):</b>			
Rapid Fixer, Solution A (do not use Solution B)	1:7	5:00	100/26
<b>Hardening fixers (for general printing):‡</b>			
KODAK Fixer	—	10:00	100/26
POLYMAX T	1:7	5:00	100/26
Rapid Fixer (Solution A and B)	1:7	5:00	100/26
KODAFIX Solution	1:7	5:00	100/26
<b>Wash—</b>			
<b>With Washing Aid— 10 to 30°C (50 to 86°F):</b>			
Hypo Clearing Agent	stock solution 1:4	3:00-DW; 2:00-SW	80/20 without pre-rinse; 200/50 with 1-minute pre-rinse
Wash	—	20:00-DW; 10:00-SW	—
<b>Without Washing Aid— 10 to 30°C (50 to 86°F):</b>			
	—	60:00	—

\* Discard the solution when color changes to a purplish blue.

† To increase capacity, use two fixing baths.

‡ A hardening fixer may improve release on ferrotyping drums.

### Stop Bath

Bathe prints for at least 15 seconds at 18 to 24°C (65 to 75°F) with continuous agitation in KODAK EKTAFLO Stop Bath, KODAK Indicator Stop Bath, or 48 mL KODAK 28% Acetic Acid and water to make 1 L.

With EKTAFLO or Indicator Stop Bath, discard the solution when the color changes to a purplish blue. Change Acetic Acid and water stop bath after approximately twenty 8 x 10-inch prints per litre (eighty 8 x 10-inch prints per gallon).

### Fixing

Fix prints at 18 to 24°C (65 to 75°F) with frequent agitation. With KODAK POLYMAX T Fixer, KODAK Rapid Fixer (Solution A and B), or KODAFIX Solution, if you use two fixing baths, fix prints for 2½ minutes in each bath, draining for 5 seconds between baths. Fix for 5 minutes if you use a single bath.

With KODAK Fixer, if you use two fixing baths, fix prints for 5 minutes in each bath, draining for 5 seconds between baths. Fix for 10 minutes if you use a single bath.

**Note:** Using a hardening fixer makes toning less efficient. For the same amount of processing time, you'll see less of a toning effect.

### Washing

Wash for one hour in running water at 10 to 30°C (50 to 86°F), interleaving the prints carefully and frequently. The wash-water flow rate should provide at least one complete change of water in the container every 5 minutes. The KODAK Automatic Tray Siphon provides proper movement and agitation during washing.

Avoid prolonged washing and soaking times to minimize physical damage to the prints.

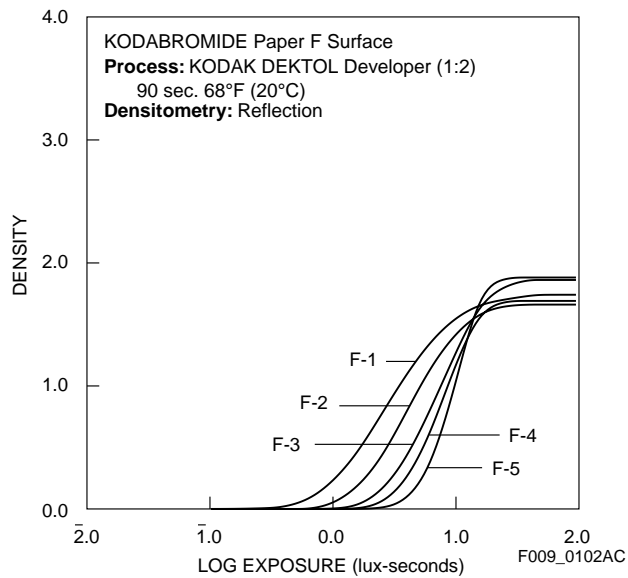
To reduce time and conserve water, use KODAK Hypo Clearing Agent before washing. Transfer the prints, with or without a previous rinse, to the clearing agent. Following the Hypo Clearing Agent, wash double-weight prints for 20 minutes (single-weight prints for 10 minutes) with agitation and normal water flow.

### Drying

Remove as much surface water as possible from prints and dry the prints in a dust-free place. Place prints face down on a cheesecloth, fiberglass, or plastic screen racks; between photo blotters, or on a belt dryer.

For glossy prints made on F-surface paper, transfer the wet prints directly from the wash to a ferrotype dryer (glazing machine) or to clean, wet ferrotype plates. Squeegee the prints into close contact with the plates and allow them to dry.

## Characteristic Curves



**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.

## TONING

Treatment with a toner extends the life of prints that may be exposed to oxidizing gases or subjected to adverse storage or display conditions. KODAK Toners will protect prints whether or not they produce a tone shift.

Processing	Tone Shift with KODAK Toners		
	Full	Slight	None
Tray (DEKTOL Developer)	Sepia	POLY-TONER (1:24) (1:50)	POLY-TONER (1:4)
		Brown (1:19)	Rapid Selenium (1:3) (1:9) (1:20) (1:40)

For more information on toning, see KODAK Publication G-23, *Toning KODAK Black-and-White Materials*. It explains the technique of toning, and describes Kodak toners and their effects on Kodak black-and-white papers and films.

## SIZES AVAILABLE

Sizes and CAT numbers may differ from country to country. For a complete list of sizes and contrast grades, contact a dealer who supplies KODAK PROFESSIONAL Products.

### Single Weight

Sheets Per Package	Size in. x n.	Surface & Contrast	CAT No.
500	4 x 5	F2	143 6609
500	5 x 7	F2	143 6658
500	5 x 7	F3	143 7433
500	5 x 7	F4	143 8167
25	8 x 10	F2	143 6724
25	8 x 10	F3	143 7508
100	8 x 10	F2	143 6732
100	8 x 10	F3	143 7516
100	8 x 10	F4	143 8233
100	8 x 10	F5	143 8811
500	8 x 10	F2	143 6740
500	8 x 10	F3	143 7524
500	8 x 10	F4	143 8241
500	8 x 10	F5	143 8829
50	20 x 24	F3	143 7706

Rolls in. x ft	Surface & Contrast	Spec	CAT No.
40 x 100	F2	87	143 7029

### Double Weight

Sheets Per Package	Size in. x in.	Surface & Contrast	CAT No.
25	8 x 10	F3	144 1948

### Postcards

Cards Per Package	Size in. x in.	Surface & Contrast	CAT No.
100	3 1/2 x 5 7/16	F2	144 1476
100	3 1/2 x 5 7/16	F3	144 1823
500	3 1/2 x 5 7/16	F2	144 1484

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## MORE INFORMATION

Kodak has many publications to assist you with information on Kodak products, equipment, and materials.

Additional information is available on the Kodak website and through the U.S.A./Canada faxback system.

The following publications are available from dealers who sell Kodak products, or you can contact Kodak in your country for more information.

- E-30      *Storage and Care of KODAK Photographic Materials—Before and After Processing*
- E-103BF   *KODAK PROFESSIONAL Black-and-White Films Matrix*
- J-5        *KODAK POLYMAX T Developer and KODAK POLYMAX T Fixer*
- K-4        *How Safe Is Your Safelight?*

For the latest version of technical support publications for KODAK PROFESSIONAL Products, visit Kodak on-line at:  
**<http://www.kodak.com/go/professional>**

Many technical support publications for KODAK PROFESSIONAL Products can be sent to your fax machine from the Kodak Information Center. Call:  
**U.S. 1-800-242-2424, Ext. 33 / Canada 1-800-295-5531**  
—Available 24 hours a day, 7 days a week—

If you have questions about KODAK PROFESSIONAL Products, call Kodak.

In the U.S.A.:

1-800-242-2424, Ext. 19, Monday–Friday  
9 a.m.–7 p.m. (Eastern time)

In Canada:

1-800-465-6325, Monday–Friday  
8 a.m.–5 p.m. (Eastern time)

**Note:** The Kodak materials described in this publication for use with KODABROMIDE Paper are available from dealers who supply KODAK PROFESSIONAL Products. You can use other materials, but you may not obtain similar results.

**Kodak Professional**