

Toning KODAK Black-and-White Papers



Print toners are chemical solutions most commonly used to alter the hue of the developed image on black-and-white photographic papers. The degree of tint a toner produces depends on the basic image tone of the enlarging paper, the length of time the paper is immersed in toning solution, and the dilution of the toner.

Your decision to tone a print may be an aesthetic choice to alter hues or enhance the maximum density (D-max). But you can also treat your print with a toner to protect the silver image during display or archival keeping without changing the image hue.

Kodak toners will protect prints whether or not they produce a color shift. For protection without a color change, choose a paper/toner combination that shows an "N" (no tone change) from the table "Degree of Toning Produced by Paper/Toner Combinations."

Toning cannot disguise poor negative or print quality. Use a properly exposed and processed print made from a high-quality negative.

Selecting a Toner

Using the following table, choose the combination of paper, developer, and toner to obtain the tone you want. To produce the times listed, the papers were developed in KODAK DEKTOL Developer (1:2) at 20° C (68° F). Some paper/developer combinations may fall into more than one category because of development or toning variations. (For toning effects with other developers, refer to the specific technical publications listed under "More Information.")

Toners

The color of a toned print depends on the formula and dilution of the toner; the paper type, surface, and stock tint; and the processing. Toners extend the life of prints that may be exposed to oxidizing gases or subjected to adverse storage or display conditions.

KODAK POLY-TONER: Produces hues from reddish-brown to a very warm brown with warm-tone papers, and a purplish-brown tone with some neutral or cold-tone papers.

KODAK Brown Toner: Produces a variety of brown tones on neutral- and warm-tone papers.

KODAK Sepia Toner: Produces warm brown tones on cold-tone papers or yellowish-brown tones on warm-tone papers. Includes bleach and redeveloper.

KODAK Rapid Selenium Toner: Produces several cold-brown hues with warm-tone papers. Higher dilutions (1:20 and 1:40), provide slightly cooler tones and enhanced maximum density.

Tones Produced by Paper/Toner Combinations

Tone	KODAK Paper	KODAK Toner	Dilution
Reddish-Brown	KODABROME II RC PANALURE SELECT RC P-MAX Art RC POLYCONTRAST III RC POLYMAX II RC	Brown	Dilute according to the instructions packaged with the toner.
	ELITE Fine-Art*	POLY-TONER	1:50
	EKTALURE* POLYMAX Fiber POLYMAX Fine-Art		1:4, 1:24, or 1:50
	EKTALURE*		Rapid Selenium
Chocolate-Brown	ELITE Fine-Art* EKTALURE* POLYMAX Fiber POLYMAX Fine-Art	Brown	Dilute according to the instructions packaged with the toner.
Sepia	P-MAX Art RC	Sepia	
Yellow-Sepia	EKTALURE* ELITE Fine-Art*	Sepia	
Warm-Black	ELITE Fine-Art*	Rapid Selenium	
Purplish-Brown	ELITE Fine-Art* P-MAX Art RC	POLY-TONER	1:4
	KODABROME II RC PANALURE SELECT RC P-MAX Art RC POLYCONTRAST III RC POLYMAX II RC		1:50
Cool-Brown	KODABROME II RC KODABROMIDE* PANALURE SELECT RC POLYCONTRAST III RC POLYMAX Fiber POLYMAX Fine-Art POLYMAX II RC	Sepia	Dilute according to the instructions packaged with the toner.

* To be discontinued by year end 1999 or when inventories are depleted.

Degree of Toning Produced by Paper/Toner Combinations

KODAK Paper	KODAK Developer,* Developer and Replenisher, or Processor	KODAK POLY-TONER			KODAK Brown Toner	KODAK Sepia Toner	KODAK Rapid Selenium Toner		
		1:4	1:24	1:50			1:3	1:9	1:20
Resin-Coated Base									
KODABROME II RC	DEKTOL, POLYMAX T, POLYMAX RT	S	M	M	F	F	N	N	N
	ROYALPRINT Processor, Model 417	N	S	S	M	F	N	N	N
PANALURE SELECT RC	POLYMAX T, POLYMAX RT, DEKTOL	S	M	M	M	F	S	S	N
	ROYALPRINT Processor, Model 417	S	S	S	M	F	N	N	N
P-MAX Art RC	DEKTOL	S	M	M	F	F	S	S	N
POLYCONTRAST III RC	DEKTOL, POLYMAX T, POLYMAX RT	S	M	M	F	F	S	S	N
	ROYALPRINT Processor, Model 417	N	N	S	M	F	N	N	N
POLYMAX II RC	DEKTOL, POLYMAX T, POLYMAX RT	M	M	M	F	F	S	S	S
Fiber Base									
AZO	DEKTOL	M	M	M	F	F	M	S	S
EKTALURE†	EKTAFLO Type 2, DEKTOL, EKTONOL	M	F	F	F	F	M	VS	N
EKTAMATIC SC	DEKTOL	N	S	S	M	F	N	N	N
	EKTAMATIC Processor, Model 214	S	S	S	S	F	N	N	N
ELITE Fine-Art†	POLYMAX T DEKTOL	M	M	M	F	F	S	S	VS
KODABROMIDE†	DEKTOL	N	S	S	S	F	N	N	N
POLYMAX Fine-Art	DEKTOL	S	S	S	S	M	N	N	N
POLYMAX Fiber	DEKTOL	S	S	S	S	M	N	N	N
N = No tone change, but provides print protection VS = Very slight tone change S = Slight tone change M = Moderate tone change F = Full tone change					Note: Follow the instructions supplied with KODAK Toners to produce the tones listed in the table. N, VS, S, M, and F indicate the degree of color change under most conditions. Toning is not as predictable as most other processing steps; at times, prints may tone more or less easily than the information in the table indicates.				

* Developer used for tray processing.

† To be discontinued by year end 1999 or when inventories are depleted.

Toning KODAK Black-and-White Papers

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.

E103BP	<i>KODAK Black-and-White Papers Application Matrix</i>
F-2	<i>Pathways to Black and White</i>
G-7	<i>KODAK POLYMAX Fiber Paper</i>
G-10	<i>KODAK AZO Paper</i>
G-12	<i>KODAK EKTAMATIC SC Paper</i>
G-16	<i>KODABROME II RC Paper</i>
G-21	<i>KODAK POLYCONTRAST III RC Paper</i>
G-22	<i>KODAK EKTAMAX RA Professional Papers</i>
G-24	<i>KODAK POLYMAX Fine-Art Paper</i>
G-26	<i>KODAK POLYMAX II RC Paper</i>
G-27	<i>KODAK PANALURE SELECT RC Paper</i>
G-28	<i>KODAK P-MAX Art RC Paper</i>

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)

Kodak Professional