KODAK Commercial Film

---NOTICE---

Discontinuance of KODAK Commercial Film

Due to declining usage and demand, KODAK Commercial Film has been discontinued.

Kodak Professional appreciates your loyalty to Commercial Film over the years. As a recommended alternative, we suggest KODAK PROFESSIONAL T-MAX 100 Film processed to a higher than normal contrast. Some experimentation with different development times will be necessary to adjust the contrast of the film to the level required by your particular application.

Do not use a safelight with T-MAX 100 Film.

EXPOSURE

Speed

Daylight: EI 50/18°

Tungsten or Quartz-Iodine: EI 8/10°

Pulsed-Xenon Arc: EI 12/12°

These exposure indexes are provided primarily as indicators of the relative speed of this film compared with other photographic materials. Use the exposure indexes for daylight, tungsten, or quartz-iodine illumination with exposure meters to establish trial exposures. The pulsed-xenon arc value indicates the relative speed of this film to pulsed-xenon illumination measured with a light integrator.

Exposure and Development Adjustments for Long and Short Exposures

At the exposure times in the table below, compensate for the reciprocity characteristics of this film by increasing exposure and adjusting the development as shown.

<table>
<thead>
<tr>
<th>If Indicated Exposure Time Is (seconds)</th>
<th>Use This Lens-Aperture Adjustment OR This Adjusted Exposure Time (seconds)</th>
<th>AND Use This Development Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/100</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1/25</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1/10</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>10</td>
<td>+½ stop</td>
<td>15</td>
</tr>
<tr>
<td>100</td>
<td>+1 stop</td>
<td>300</td>
</tr>
</tbody>
</table>

STORAGE AND HANDLING

Load and unload your camera in subdued light.

SIZES AVAILABLE

Sizes and catalog numbers may differ from country to country. For a complete list of sizes, contact a dealer who supplies Kodak Professional Products.

<table>
<thead>
<tr>
<th>Sheets Per Package</th>
<th>Size (inches)</th>
<th>Film Code</th>
<th>Base</th>
<th>CAT No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>4 x 5</td>
<td>7-mil ESTAR Thick</td>
<td>198 7894</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>8 x 10</td>
<td></td>
<td>197 6661</td>
<td></td>
</tr>
</tbody>
</table>
DARKROOM RECOMMENDATIONS
Use a KODAK 1 Safelight Filter (red) in a suitable safelight lamp with a 15-watt bulb. Keep the safelight at least 1.2 metres (4 feet) from the film. Run tests to determine that safelight use gives acceptable results for your application.

For information on safelight testing, see KODAK Publication K-4, *How Safe Is Your Safelight?*

PROCESSING
The development times in the table below are based on film used for copying or general applications at an exposure time of \( \frac{1}{25} \) second.

<table>
<thead>
<tr>
<th>Application</th>
<th>KODAK Developer</th>
<th>Development Time in Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Tray* or Large Tank†</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18°C (65°F)</td>
</tr>
<tr>
<td>Gravure</td>
<td>DK-50</td>
<td>9</td>
</tr>
<tr>
<td>Gravure (Higher Contrast)</td>
<td>D-11</td>
<td>2(\frac{1}{2})</td>
</tr>
<tr>
<td>Gravure</td>
<td>HC-110 (Dil C)</td>
<td>4(\frac{1}{4})</td>
</tr>
<tr>
<td>Gravure</td>
<td>HC-110 (Dil D)</td>
<td>4(\frac{3}{4})</td>
</tr>
</tbody>
</table>

* With continuous agitation.
† With gaseous-burst agitation (1 second every 10 seconds) that provides pressure to raise the solution level 16 mm (\(\frac{5}{8}\) inch).
Development times shorter than 5 minutes may produce unsatisfactory uniformity.

The development times in the table below are based on film used for graphic arts applications.

<table>
<thead>
<tr>
<th>Application</th>
<th>KODAK Developer</th>
<th>Development Time in Minutes at 20°C (68°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravure</td>
<td>DK-50</td>
<td>3</td>
</tr>
<tr>
<td>Gravure (Higher Contrast)</td>
<td>D-11</td>
<td>3</td>
</tr>
<tr>
<td>For Maximum Contrast</td>
<td>D-11</td>
<td>8</td>
</tr>
</tbody>
</table>

* With continuous agitation

Final Steps in Processing—18 to 24°C (65 to 75°F)

**KODAK Chemical** | **Time (min:sec)** |
---------------------|---------------------|
Rinse—with agitation: |                     |
KODAK Indicator Stop Bath | 0:30                |
Fix—with frequent agitation: |                     |
KODAK Fixer | 5:00 to 10:00 |
KODAK Rapid Fixer | 2:00 to 4:00 |
KODAFIX Solution | 5:00 to 10:00 |

Wash:
Running water—OR—Rinse with water
KODAK Hypo Clearing Agent 1:00 to 2:00
Running water 5:00

Final rinse:
KODAK PHOTO-FLO Solution 0:30
Dry—in a dust-free place

IMAGE-STRUCTURE CHARACTERISTICS
The data in this section is based on development at 20°C (68°F) in KODAK HC-110 Developer for 2\(\frac{1}{4}\) minutes.

Diffuse rms Granularity* 12

*Read at a net diffuse density of 1.0, using a 48-micrometre aperture, 12X magnification.
Characteristic Curves

Exposure: Tungsten, 10 seconds
Process: KODAK Developer DK-50; 68°F (20°C), 5 minutes
Densitometry: Diffuse visual

Contrast-Index Curves

Process: Tray; 68°F (20°C)
MORE INFORMATION
Kodak has many publications to assist you with information on Kodak products, equipment, and materials. The following publications are available from Kodak Customer Service, 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*
- F-2  *Pathways to Black and White*
- K-4  *How Safe Is Your Safelight?*

For the latest version of technical support publications for Kodak products, visit Kodak on-line at: [http://www.kodak.com/go/professional](http://www.kodak.com/go/professional)

If you have questions about Kodak 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 KODAK Commercial Film are available from dealers who supply KODAK PROFESSIONAL Products. You can use other materials, but you may not obtain similar results.

This publication is printed on recycled paper that contains 50 percent recycled fiber and 10 percent post-consumer material.