TI9003 Issued 7-01

KODAK PREMIER Recording Film PRD, PRD7, PRDM, PR7M

Features / Customer Product Specifications

KODAK PREMIER Recording Films produce extremely hard dots with a high degree of linearity. They are designed for electronic recording graphic arts applications. All are very high contrast and, in most applications, deliver a D-max in excess of 4.5.

These products will achieve optimum results in KODAK PREMIER 7000 Developer and Replenisher (diluted 1:2), and can also be processed in KODAK RA2000 Developer and Replenisher (diluted 1:2).

It may be possible to achieve satisfactory results in other rapid-access type developers that are indicated as Hard-Dot capable.

PREMIER Recording Films are coated on a dimensionally stable KODAK ESTAR Base with antistatic and surface properties to ensure dependable transport and handling behavior.

PRD, PRD7, PRDM, PR7M	• Broad band red-sensitive films suitable for use on helium-neon laser (HN; 633 nm) or red laser diode (RLD; 630 to 670 nm) recording devices. • PRD: 4-mil/0.1 mm clear; PRD7: 7-mil/0.18mm clear • PRDM and PR7M (matte versions of PRD and PRD7) feature a special matte surface that provides rapid, uniform drawdown for exposure of films on flexographic or smooth-surface plates.

Safelight Recommendations

KODAK PREMIER Recording Films PRD, PRD7, PRDM, PR7M.
Use an EncapSulite T20/ND.75 or equivalent. Keep the film at least 1.2 metres (4 feet) from the safelight. Do not expose the film to safelight illumination for longer than two minutes.

European office:
EncapSulite International Ltd.
Frau Karia Hoppe, EncapSulite Sales
Postfach 900-328
5 Koln 90 Germany

US office:
EncapSulite International Inc.
505 Julie Rivers Road #170
Sugar Land, TX 77478-2848

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.

Exposure

Following are the intended uses for KODAK PREMIER Recording Films. Variations in equipment and in methods of use preclude exact exposure recommendations. Follow exposure procedures recommended by the equipment manufacturer.

PRD, PRD7, PRDM, PR7M	Film recorders and imagesetters that use a helium-neon laser (HN, 633 nm) or a red laser diode (RLD, 630 to 670 nm) as the exposing source.

Mechanized Processing

Notice: Observe precautionary information on product labels and on the Material Safety Data Sheets.

The recommended starting points for development and replenishment, using KODAK PREMIER 7000 Developer and Replenisher (1:2), KODAK RA 2000 Developer and Replenisher (diluted 1:2), KODAK RA 2001 Developer and Replenisher (ready-to-use) or KODAK RA2050 Replenisher (diluted 1:2) are:

Rapid Access Processors, 25 to 30 seconds at 95°F (35°C)

KODAK Developers	Tank Turnovers per week	Basic Replenishment Rates (mls/m2)		
		15% exposed	50% exposed	80% exposed
Concentrates				
PREMIER 7000 Developer & Replenisher	Minimum of 0.5	250	350	450
RA2000/HX 161 Developer & Replenisher	Minimum of 1.0	350	465	600
RA2050 Replenisher	Minimum of 1.0	160	235	300
Ready to Use				
RA 2001 Developer & Replenisher	Minimum of 1.0	350	465	600

For further information on processing see TI2536—KODAK Concentrate and Ready-to-Use Developers and Fixers.

End of Instruction Sheet

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1) Support

Dimensionally stable support:

PRD, PRDM,	4 mil (0.004 in., 0.10 mm)	ESTAR Base
PRD7, PR7M,	7 mil(0.007 in., 0.18 mm)	ESTAR Thick Base

2) Dimensional Stability

Dimensional stability is an all-inclusive term. In photography, it applies to size changes caused by changes in humidity and in temperature, and by processing and aging. The dimensional properties of ESTAR Base may vary slightly in different directions within a sheet; the differences that may exist, however, are not always aligned with the length and width directions:

Data for the 4 mil products (PRD, PRDM):

Thermal Coefficient of Linear Expansion:

Unprocessed or Processed	0.001% per °F (0.0018% per °C)

Humidity Coefficient of Linear Expansion:

Unprocessed	0.0017% per % RH
Processed	0.0016% per % RH

Processing Dimensional Change:

Dependent on drying conditions

3) Reciprocity

With recommended processing, the reciprocity speed change is negligible within exposure range of 1/1000 second to 1 billionth second; there is no change in contrast.

4) Graphs[1]

Using KODAK RA 2000 Developer and Replenisher (1:2)

Characteristic

A) KODAK PREMIER Recording Film PRD, PRD7, PRDM, PR7M (02-01)

Spectral Sensitivity

B) KODAK PREMIER Recording Film PRD, PRD7, PRDM, PR7M (02-01)

The Kodak 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.

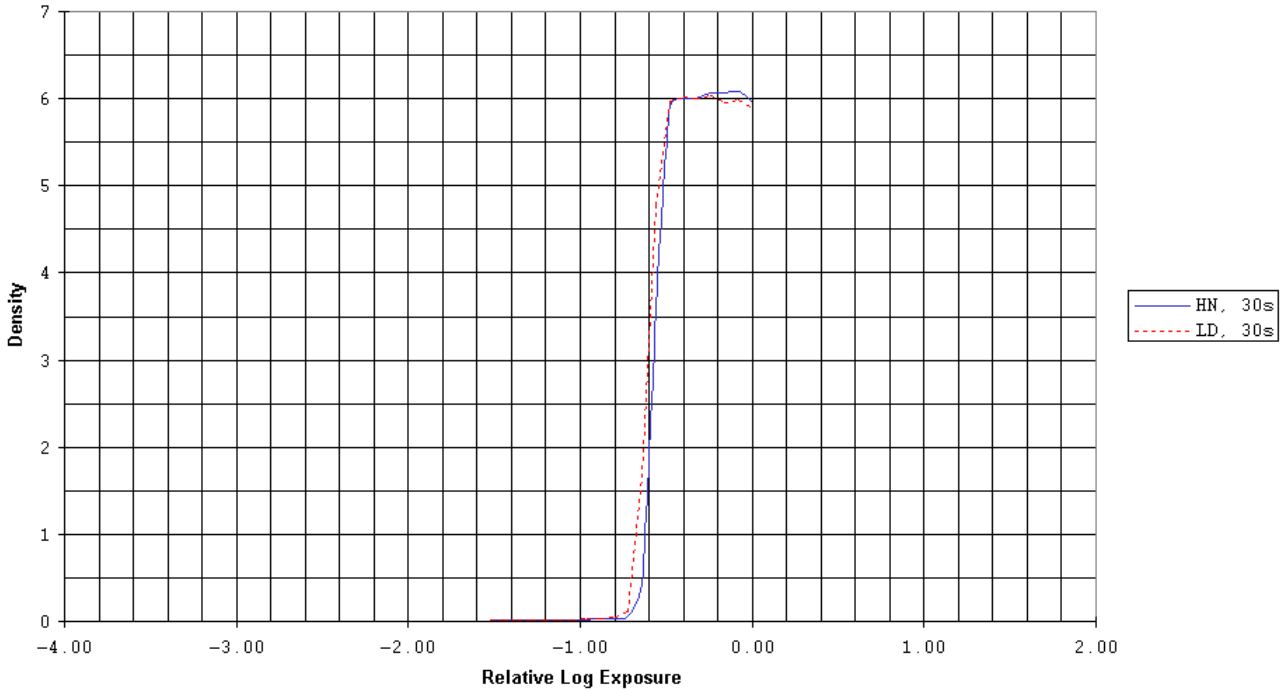
Kodak Polychrome Graphics
Norwalk, CT 06851
USA

End of Data Sheet

[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.

TI9003A 2-01
CHARACTERISTIC, For Publication

KODAK PREMIER Recording Films PRD, PRD7, PRDM, PR7M
KODAK RA 2000 Developer and Replenisher (1:2)



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 and improve the product characteristics at any time.

TI9003B 02-01
SPECTRAL SENSITIVITY, For Publication

KODAK PREMIER Recording Film PRD, PRD7, PRDM, PR7M
Exposure: 1.4 sec; KODAK RA 2000 Developer and
Replenisher (1:2), diffuse visual; D=0.6>D-min; For Publication

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