

Oncology Portal Pack for Localization / PPL Film

Oncology Portal Pack for Localization / PPL Film is a high speed, high contrast orthochromatic medical x-ray film. It is available in "READY PACK" packaging in two sizes: 33 x 41 cm and 25.4 x 30.5 cm (10 x 12 inches). The film is coated on a blue, approximately 0.2 mm (7-mil) polyester base that has a base density of approximately 0.18 with good static protection. It may be processed in standard and rapid process cycles.

The 33 x 41 cm film size allows the READY PACK envelope with film to fit inside a 35 x 43 cm X-OMAT L Cassette for use in radiation therapy beam localization procedures. If used for localization procedures it must be used with intensifying screens.

Without a cassette and intensifying screens it may be used for dosimetry with the user's appropriate calibration and maintenance of equipment. It exhibits a wide response range that is approximately linear. The film may only be directly exposed for calibration and dosimetry purposes without the use of intensifying screens and must not be used for patient imaging.

Dosimetric and Sensitometric Properties:

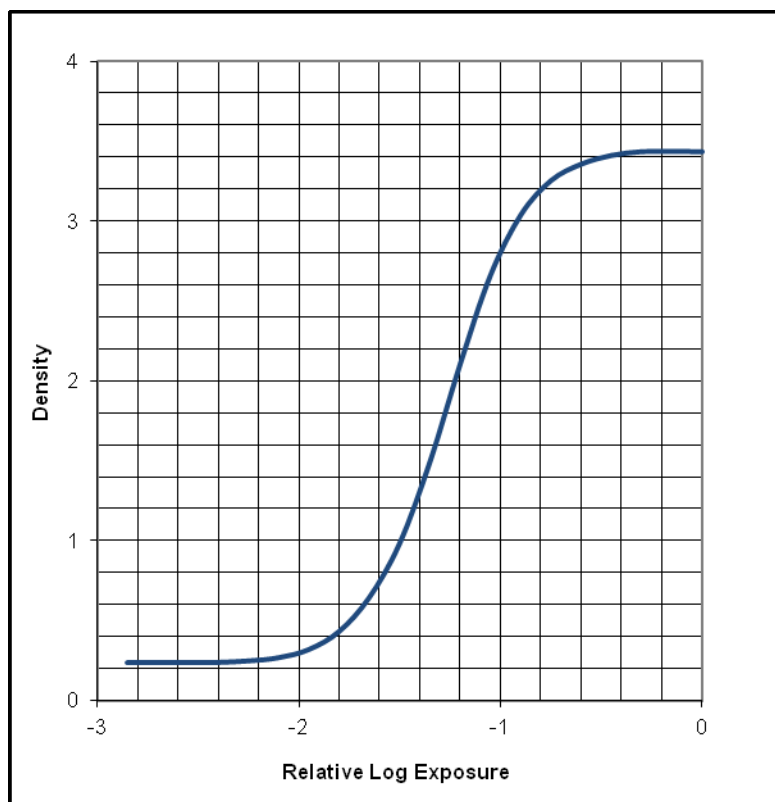
Dosimetric Properties

Responsive Range	Approximate Saturation Exposure
25-400 cGy	700 cGy

Sensitometric Parameters:

Speed	Measured at 1.0 OD above Gross Fog
Contrast	Measured as slope of the straight line portion of the sensitometric curve, and computed as the value for the rise for any three consecutive steps.
Gross Fog	Density of film base plus processing fog.

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Simulated Green Screen Exposure; 90-second Processing
X-OMAT 5000 RA Processor; RP X-OMAT Chemicals; Diffuse Visual Densitometry



Notice: The 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 to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Carestream Health, Inc. The company reserves the right to change and improve product characteristics at any time.

Automatic Processing Recommendations:

In general, processing is recommended in X-OMAT and RP X-OMAT Processors using RP X-OMAT Developer and Replenisher and RP X-OMAT LO Fixer and Replenisher.

Recommended Starter Volumes

Developer	Starter (Added to processor developer tank)
RP	89 ml (3 fl. Oz.) per 3.78 Litres (1 gallon)

Replenishment Rate Recommendations for X-OMAT or RP X-OMAT Processors (Replenishment by length)

Film Size Processed	Use Condition	Average Number of Films per 8 hours processor operation	Replenishment Rates (ml per 35 x 43 cm)	
			Developer	Fixer
35 x 35 cm (only)	High	90 sheets or more	50	70
	Medium	30 – 90 sheets	65	85
	Low	30 sheets or less*	80	100
Average size intermix	High	115 sheets or more	50	70
	Medium	40 – 115 sheets	65	85
	Low	40 sheets or less*	80	100
35 x 43 cm (only)	High	75 sheets or more	60	85
	Medium	25 – 75 sheets	80	100
	Low	25 sheets or less*	100	120

*If sensitometry does not stay within control limits, flooded replenishment is recommended.

Please refer to Service Bulletin No. 30, available on the Carestream website or upon request, for additional processing recommendations.

Influence of developer temperature in case of manual processing

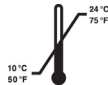
The developing time must be adjusted as per the following table:

Temperature °C:	20	22	24.5	26.5
Developer Time (minutes)	8	7	5	4

Storage and Handling

Storage -

Unexposed:



10–24 °C (50–75 °F)

Do not refrigerate or freeze as this can cause condensation to occur.



30–50 %RH



Protect from heat and radioactive sources. Film is to be properly shielded from x-rays, gamma rays, or penetrating radiation.

Exposed: Keep cool, dry, and properly shielded from penetrating radiation. Process as soon as possible.

Processed: 16–27 °C (60–80 °F), 30–50 %RH

The film should be used before the expiration date  indicated on the box with the lot number **LOT**.

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. Luminous watches, cell phone and darkroom light leaks should be avoided.



Do not re-use. Film is a single use medical device.

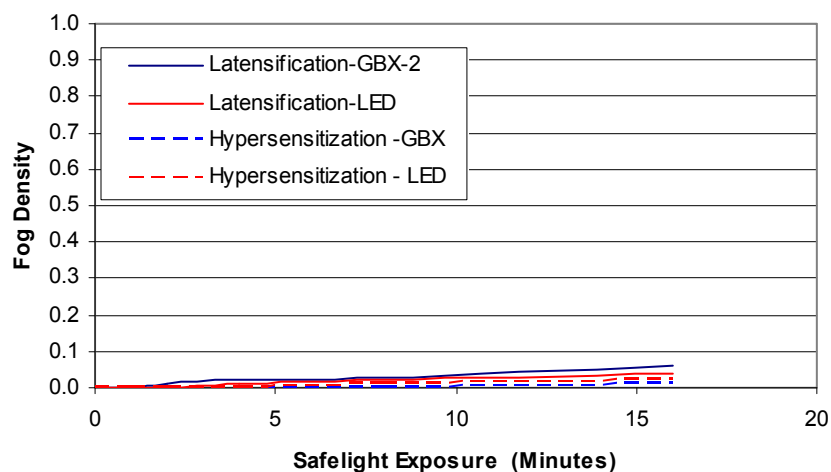
Safelight Filter



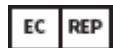
Use a Ruby Red Safelight Filter, such as GBX-2, with a frosted 15-watt bulb or a LED Safelight located at least 1.22 metres (48 inches) from the film.

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GBX-2 Safelight Filter, 15-watt bulb /LED Safelight / 1.22 metres (48 inches)
RP X-OMAT Processor, Model M6RA, RP X-OMAT Chemicals, 35 °C (95 °F)



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