

Oncology EDR2 Film

Oncology EDR2 Film is a high-contrast film that is coated on both sides with a very fine grain emulsion having low image noise. It is excellent for relative dosimetry (e.g., field uniformity, equipment characterization: field shapes, port openings, multi-leaf collimators).

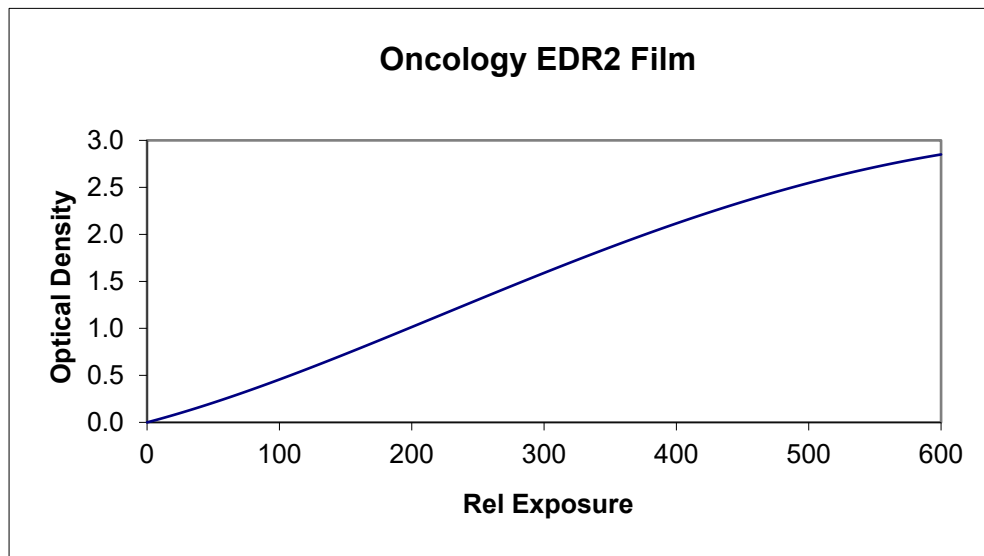
With the user's appropriate calibration and maintenance of equipment, film may be applicable to absolute dosimetry applications such as high dose treatment strategies including intensity-modulated radiation therapy (IMRT).

Wide response range:

- Approximately linear
- Robust processing
- Available in convenient READY PACK format

The film may only be directly exposed for calibration and dosimetry purposes without use of an intensifying screen. It is not to be used for patient imaging, localization or verification.

Dosimetric Properties



Responsive Range	Approximate Saturation Exposure
25–400 cGy	700 cGy

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

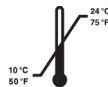
The developing time must be adjusted as per the following table:

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 Required



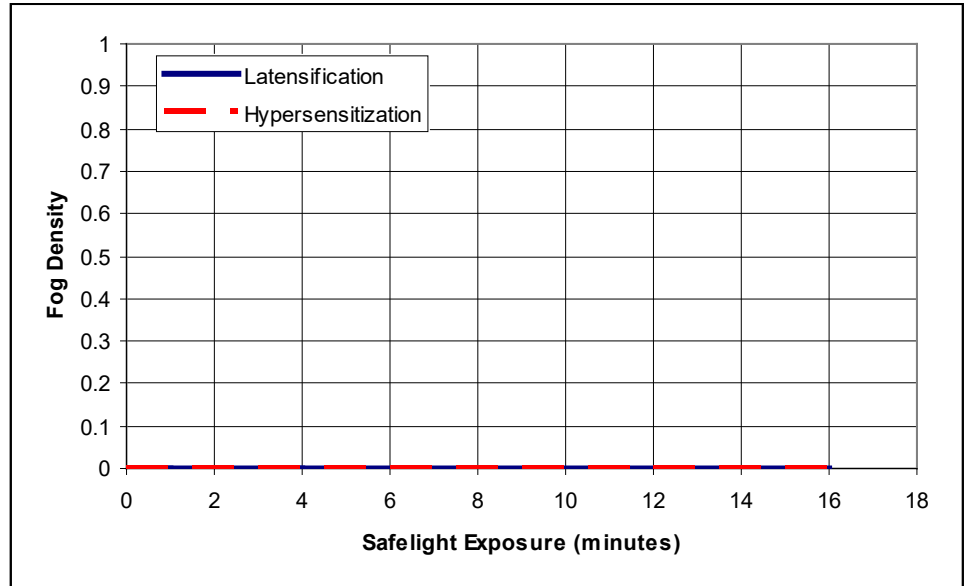
Use a Ruby Red Safelight Filter, such as GBX-2, with a frosted 15-watt bulb or a LED Safelight located at least 1.22 metres (48 inches) from the film.

Latensification: Safelight exposure after primary x-ray exposure.

Hypersensitization: Safelight exposure prior to primary x-ray exposure.

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GBX-2 Safelight Filter, 15-watt bulb / 1.22 metres (48 inches)
RP X-OMAT Processor, Model M6, RP X-OMAT Chemicals, 35 °C (95 °F)



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Carestream Health, Inc. – 150 Verona Street – Rochester, NY, USA 14608

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