Issued 2016-02

T-MAT G/RA Film

T-MAT G/RA Film is a high-speed, orthochromatic film for use with green light emitting intensifying screens such as LANEX Regular or LANEX Medium. It is coated on a blue, approximately 0.2 mm (7-mil) polyester support that has a base density of approximately 0.19, with good static protection. T-MAT G/RA Film features T-Grain emulsion technology that reduces the amount of screen-light crossover, resulting in excellent image sharpness. It is designed for both standard high-throughput and rapid (RA) processing cycles. It may also be processed manually.

Because of the use of the T-Grain technology, the characteristics of T-MAT G/RA Film are:

- Very high contrast
- o High sensitivity
- o High sharpness
- o High gloss radiographs
- o Robust when used in different processing conditions

Sensitometric and Photographic Properties:

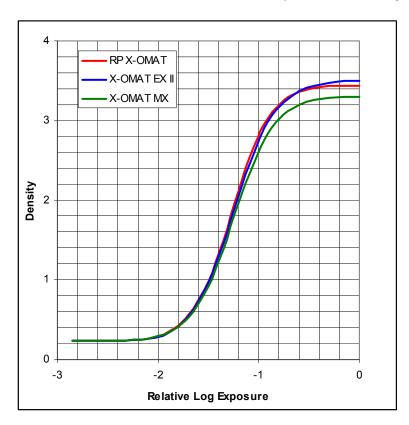
Screen	System Speed
LANEX Fine	100
LANEX Medium	250
LANEX Regular	400
LANEX Fast	600

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	Density of film base
Fog	plus processing fog.

T-MAT G/RA Film

1/50 second Simulated Green Screen Exposure; X-OMAT 5000 RA Processor; Diffuse Visual Densitometry; 90-second Processing



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, X-OMAT EX II, X-OMAT MX or X-OMAT LE+ Developer and Replenisher and RP X-OMAT LO or X-OMAT MX Fixer and Replenisher.

Influence of developer temperature in case of automatic processing

-2 °C	Ref	+2 °C
0	Base fog	0
-10 %	Sensitivity	+7 %
-1 %	Contrast	+1 %

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

Film Size Use Processed Condition	Average Number of Films per 8 hours processor	Replenishment Rates (ml per 35 x 43 cm)		
	operation	•	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 of	loes not stay w	ithin control limits, floor	ded replenishment	may be needed.

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

Recommended Starter Volumes

Developer	Starter (Added to processor developer tank)
RP, EX II, MX	89 ml (3 fl. Oz.) per 3.78 Litres (1 gallon)
LE+	No starter added

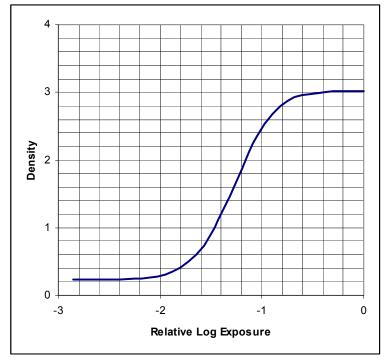
Influence of developer temperature in case of manual processing

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

Temperature °C :	20	22	24.5	26.5
Developer Time	0	7	5	4
(minutes)	0	<i>'</i>	5	4

T-MAT G/RA Film

1/50 Second Simulated Green Screen Exposure GBX Chemicals, 7 minutes, 22 °C (72 °F), Manual Process Diffuse Visual Densitometry



Sensitometric Quality Control

(required for Germany and Switzerland)

The film was tested with a calibrated light sensitometer and processed in a X-OMAT 5000 RA processor, filled with fresh RP X-OMAT Developer and RP X-OMAT LO Fixer.

Characteristics are measured according to DIN 6868-55

LE = 1.78 +/- 0.09 LK = 2.27 +/- 11 %

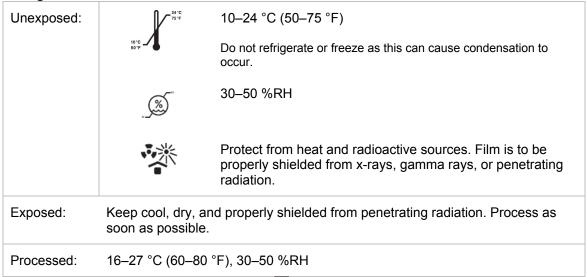
EI = 1.16 step = 9 KI = 1.52 step = 12 - 9

Note: the results obtained are dependent on exposure and processing conditions

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Storage and Handling

Storage -



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

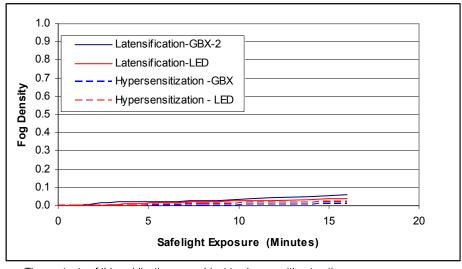
or a LED Safelight located at least 1.22 metres (48 inches) from the film.

Latensification: Safelight exposure after primary x-ray exposure.

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

T-MAT G/RA Film

GBX-2 Safelight Filter, 15-watt bulb / LED Safelight / 1.22 metres (48 inches) X-OMAT 5000 RA Processor, RP X-OMAT Chemicals, 35 °C (95 °F)



The contents of this publication are subject to change without notice.

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