

FUJIFILM PLOTTER FILM HG NEW SPR-7

FEATURES

It is designed for laser photoplotters equipped with He-Ne lasers or red laser diodes. Our unique charged accelerator emulsion technology used for HQ System provides the following features.

1. HG New SPR-7 has sensitivity and contrast suitable for laser photoplotters with He-Ne lasers or red laser diodes to provide images with sharp edges.
2. HG New SPR-7 is suitable for processing with the Fujifilm HQ system developer, which provides high quality and consistent results.
3. To eliminate false signals with AOI (Automated optical inspection), there is small matte on emulsion side.
4. The film backing layer has incorporated a newly developed electroconductive grain to provide permanent protection from static.
5. HG New SPR-7 has wide exposure latitude, allowing accurate reproduction regardless of exposure variations.
6. HG New SPR-7 absorbs less ultraviolet light, allowing the reduction of the exposure time onto the photoresist.

BASE

0.175 mm polyester base

SENSITIVITY

Red-sensitive

SAFELIGHT

Use a Fuji Safelight Glass SLG-No.4B (green) with a 10 watt lamp. Handle the film at a distance of at least one meter away from the safelight.

Film boxes are preferably kept flat, at a temperature of 20°C~25°C (68°F~77°F) and at 50~60% relative humidity. Temperature and relative humidity in the storage room must be kept within strict tolerances to avoid dimensional changes.

**AUTOMATIC
PROCESSING**

This film is suitable for processing in various rapid access automatic processors.

In order to obtain "Optimum performance", it is necessary to use the dedicated developer QR-D1. For fixer, use our Fixer UR-F1. For details, see below.

Mixing Chemicals:

Chemical		Dilution Ratio (Chemical : Water)
Developer	QR-D1*	1 : 3
Developer Replenisher	QR-D1	1 : 2
Fixer	UR-F1	1 : 2
Fixer Replenisher	UR-F1	1 : 2

*You can also use Fuji Developer HR-D1 (chemical : water=1 : 2)

Processing Conditions:

Step	Chemical	Temperature	Time
Development	QR-D1	32°C~35°C (90°F~95°F)	30 sec.
Fixing	UR-F1	25°C~35°C (77°F~95°F)	-
Wash	Running water, 5 liters/min.	15°C~30°C (59°F~86°F)	-
Dry	-	50°C (122°F) max.	-

Developer Replenishment Rates

The standard replenishment rates are indicated below in milliliters per sheet of 50.8×61.0 cm size film.

Developer replenisher QR-D1 100 ml

Fixer replenisher UR-F1 120 ml

**DIMENSIONAL
STABILITY**

In general, heat and water can cause dimensional changes in any substance, including films. The operational environment factors of temperature and relative humidity, and the processor conditions can therefore affect film dimension.

Thermal Coefficient of Linear Expansion

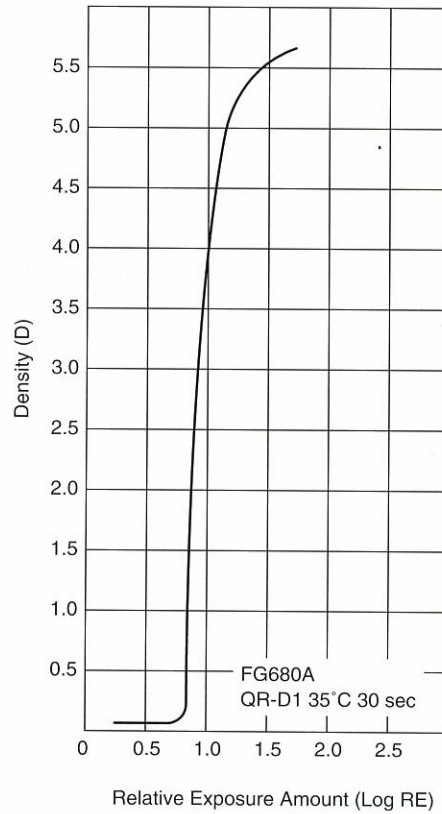
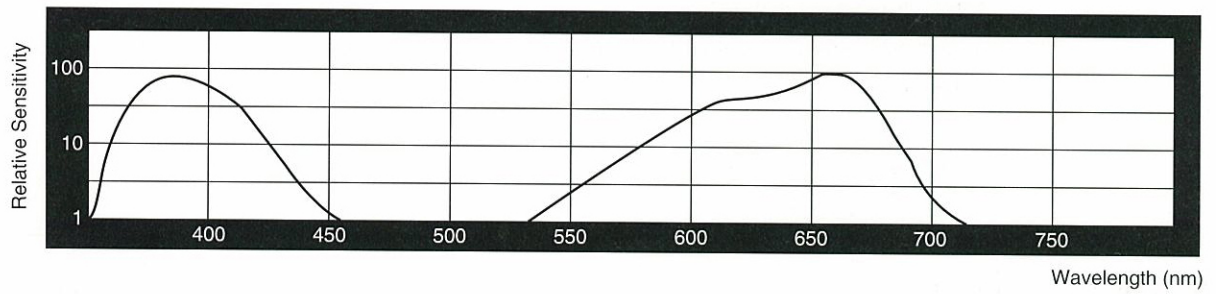
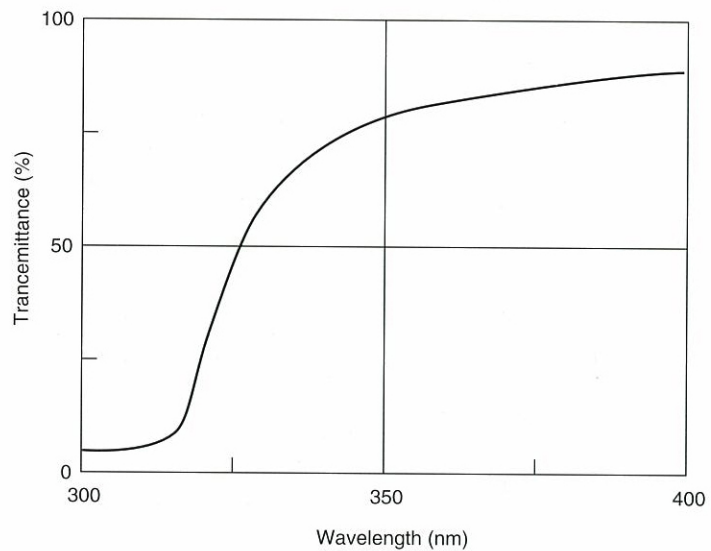
Unprocessed or processed film	0.0010 % per degree C
	0.00056 % per degree F

Humidity Coefficient of Linear Expansion

Unprocessed film	0.0011 % per % RH
Processed film	0.0010 % per % RH

Processing Dimensional Change

Processing Dimensional Change	Dependent on drying conditions
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**CHARACTERISTIC
CURVE****SPECTRAL
SENSITIVITY****UV
TRANSMITTANCE**



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