

VIVALDI VR 7-2 AND VGB 7-2

Technical Information

Vivaldi VR 7-2 is a red-sensitive line film. It is especially designed for ultra-short exposure times (microseconds) in photoplotters with red neon lasers (633nm) or laser diodes (650 – 670 nm).

Vivaldi VGB 7-2 is a green-blue-sensitive line film. It is especially designed for ultra-short exposure times (microseconds) in photoplotters with green laser diodes (500 – 553 nm) or blue argon lasers (488 nm).

Thickness of the polyester base: 0.18 mm (.007”).

■ Applications

The films are used for high quality work in the PCB industry, chemical milling and for cartographic and industrial applications with high demands for image quality, scratch resistance and dimensional stability.

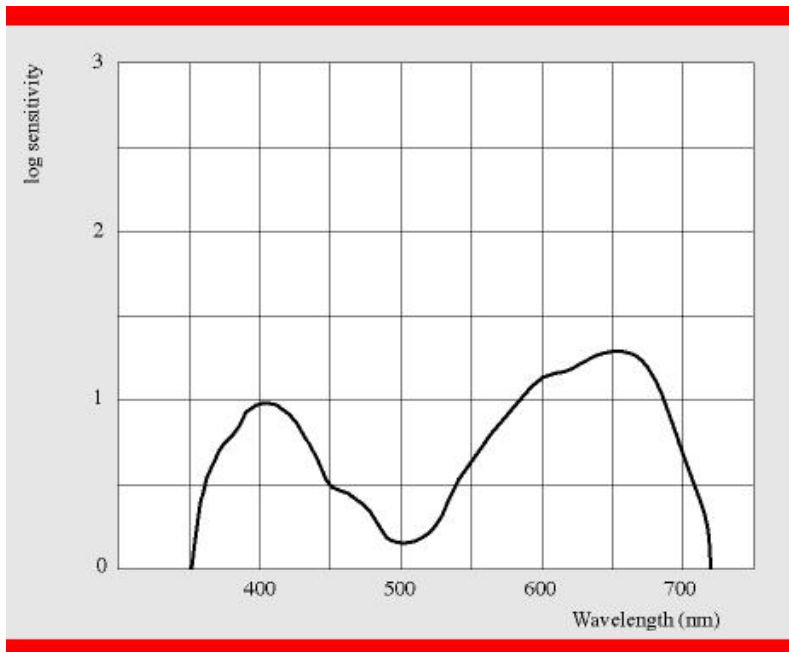
■ Characteristics

- Sub-mil lines and spaces capabilities
- Consistent and controllable line width.
- Very good dimensional stability.
- Excellent line sharpness.
- Wide exposure and development latitude.
- Stable chemistry and low consumption
- High scratch resistance

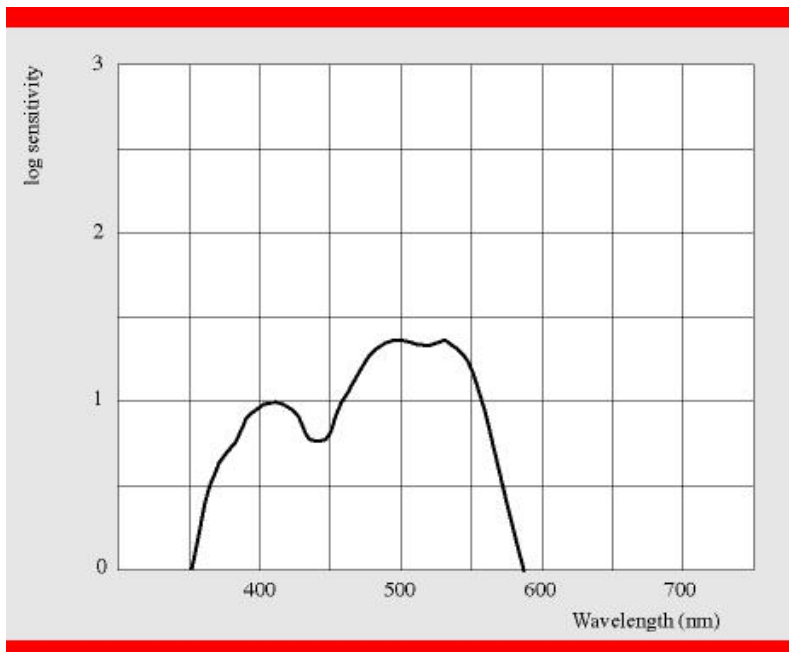
All Vivaldi films are supplied in special packaging for optimum protection during transportation and storage. A shrink foil protects the inner packaging against dust and scratches. The packaging materials can be recycled.

■ Photographic data

- Colour sensitivity: VR 7-2 is red-sensitive (630 – 670 nm) and VGB 7-2 is green-blue-sensitive.
- Spectral sensitivity

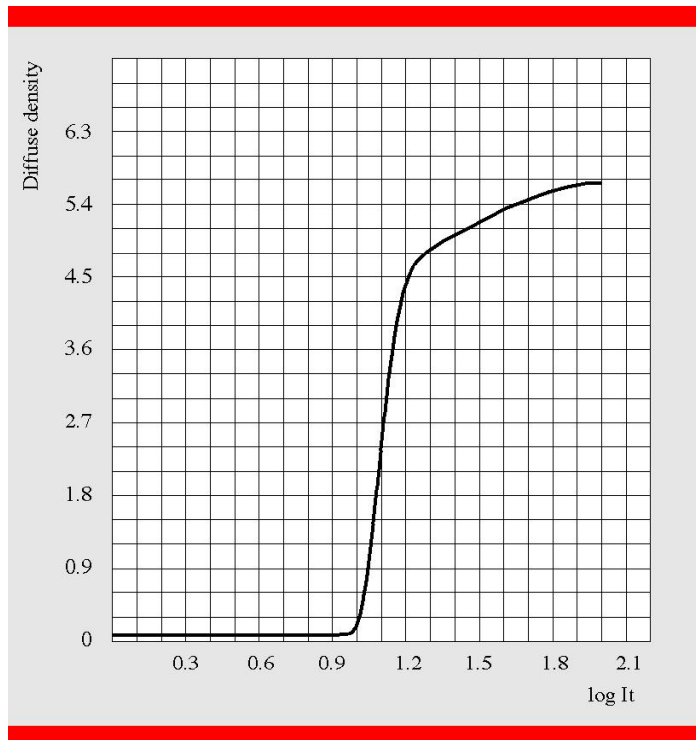


VR 7-2

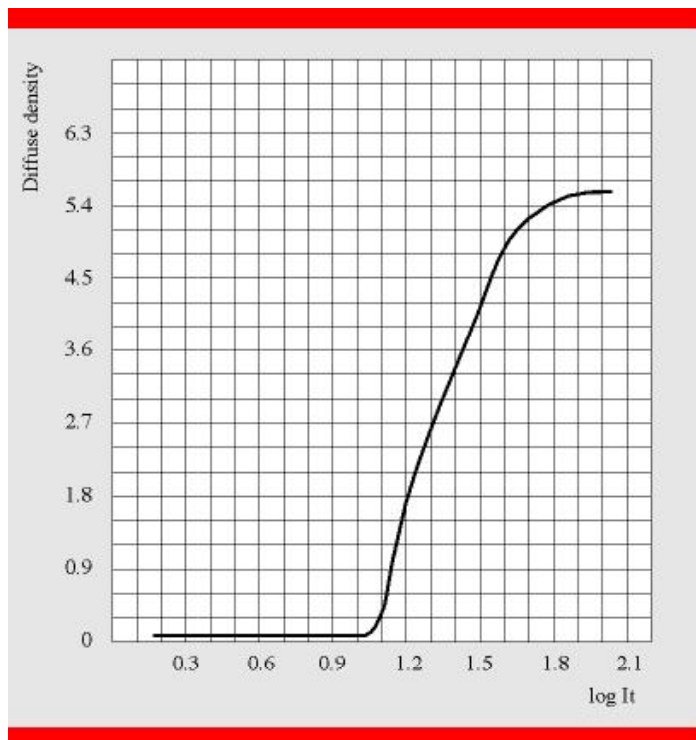


VGB 7-2

- Characteristic curve



VR 7-2
 Processed in Rapiline 72-3 HT,
 Vdev, 35 °C, 30 s.



VGB 7-2
 Processed in Rapiline 72-3 HT,
 Vdev, 35 °C, 30 s.

Storage

Non-processed photographic film has a limited shelf life. Unopened boxes can be safely kept until the expiry date mentioned on the label. Film boxes are preferably kept flat, at a temperature of 21 °C and at 50% relative humidity. Temperature and relative humidity in the storage room must be kept within strict tolerances to avoid dimensional changes.

Remove the outer packaging and the shrink foil before taking the film into the plotter room, to avoid dust being dragged into the plotter area.

■ Production guidelines

Workroom lighting

VR 7-2: Cyan (blue-green) safelight, e.g. EncapSulite T20/ND.75 filter.

VGB 7-2: Red light, e.g. Agfa R6 or EncapSulite R20.

Temperature and relative humidity must be kept within strict tolerances to avoid dimensional changes.

If the conditions in the workroom are different from the storage room, the film should be allowed to acclimatise before use.

Exposure

Important

Proceed carefully in order not to damage the film when loading the plotter. Take care that film sheets do not slide on top of each other. Do not apply strong local pressure on the film. Avoid dust contamination.

Closely follow the instructions for use provided by the plotter manufacturer. Avoid stray light during plotting.

The correct exposure will vary, depending on the type of plotter and the processor used. You can run a test to check the correct line width and the best line sharpness with the highest possible Dmax. Your Agfa representative will be pleased to give you more information.

Processing

Vivaldi films can be processed in rapid access machines.

Recommended processing conditions

Developers	Vdev G 101 c, G 101 p, G 4000 c or equivalent
Developing time	In AgfaLine 86 HT: 35 s at 32 °C In Rapiline 72-3 HT: 30 s at 35 °C
Developer replenishment	250 ml/m ² (50 % black) + 2 l/24 hrs against oxidation
Fixer	Vfix or G 333 p, or equivalent at 35 °C
Fixer replenishment	500 ml/m ² without fixer electrolysis 125 ml/m ² with fixer electrolysis
Wash	At 20 °C for optimum dimensional stability

■ Dimensional stability

The combination of the polyester base with the Vivaldi emulsions ensures maximum dimensional stability.

However the film will stretch with increasing temperature or relative humidity in the workroom. It will shrink with decreasing temperature or relative humidity conditions. An optimum adjustment of the dryer temperature in the processor will enable you to produce phototools with correct dimensions.

The film characteristics have some influence on the dimensional stability of phototools, but attention must be paid to the correct working conditions and the use of film and equipment. Your Agfa representative will be pleased to give you more information.

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