

Figura® F532







Figura® F532

Safelight Recommendation	Use dark RED light from a 15 watt bulb, per example.			
Exposure	Figura® F532 has an exposure latitude of 100-200 mJ/cm ² , and users should find the optimum exposure based on the laser being used, and whether a transmission or reflection hologram is being made. It is necessary carry out a range test of exposures to find the best exposure for the exposing and processing heat system in use.			
Method of use	Under a dark room or using the safe-light first remove the protective cover film from cut pieces of Figura® F532.			
	Laminate with the side of the tacky photopolymer (which act as an adhesive) to the clean glass substrate with a soft roller and expose accordingly holographically with a green or blue laser.			
	After laser holographic exposure, and waiting time of at least 1 min, with the photopolymer layer still attached to the glass substrate, bleach with UV or visible white light with a dosage of 10 J/cm^2 with an intensity of 500 mW/cm ² or more. The hologram is visible now for inspection.			
	Optional: remove the photopolymer film from the glass plate (the emulsion must be still attached to the PET base) and heat develop the emulsion in an oven at 115°C for 10 min. Depending on the oven type and configuration this time may vary. Apply an increasing time variation until a brighter image is obtained.			
Optical properties	Property	Value	Unit of measurement	
	Optical	See the spectrum	%	

Optical Transmittance	See the spectrum plot below	%
Haze	<2	%
Refraction index of photopolymer	1.50	-
Diffraction efficiency	> 90	%
Δn¹	> 0,06	(After heating)
Thickness	17	µm (This batch)





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Transmission spectrum of recorded and unrecorded photopolymer film



Fig 1. Transmission spectrum of Figura® F532 film before (green line) and after (yellow line) bleaching.

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Preliminary Datasheet