DRY FILM
MAGIS F 830

Thermal dry film for 830 nm CtP systems and superior flexo print quality

When laminated onto MAGIS P-L solvent-based or MAGIS P-Eco aqueous plates, MAGIS F 830 dry film ensures exceptional high-resolution reproduction with flat-top dots for superior label and flexible packaging printing. Its advanced technology delivers 1-to-1 dot transfer, creating precisely shaped flat-top dots.

MAGIS F film is part of ECO3's total flexo solution, which includes plates, imagers, processing equipment, prepress software, and expert services. This comprehensive approach ensures a seamless, high-performance workflow that maximizes efficiency and print quality.

YOU PRINT. WE CARE.

MAGIS dry film is optimized for lamination on MAGIS P-L and P-Eco plates. This results in 1-to-1 dot transfer and perfectly shaped flat-top dots with maximum gray level support and a dot range from 1 to 99% at 175 lpi, with reproduced dots of 20 µm up to a level of 0.3%.

This dry film can be handled in daylight and does not require a darkroom or UV protection. The film sheets are protected with a cover foil, which the operator can peel off before the imaging process. No processing and chemicals are needed once the ablative film has been imaged on a 830 nm-based imaging system. The sturdy film sheets are easy to handle and offer excellent dimensional stability.

MAGIS F film requires less energy than comparable carbon-based LAM products, which means throughput is much higher.

BENEFITS OF MAGIS F 830 DRY FILM LAMINATION

Cost

- Longer laser life – Lower imaging power (1,000 mJ/sqm) enhances laser longevity.
- Energy efficiency – Faster imaging speeds reduce energy consumption and total imaging time.
- Lower maintenance costs – Less ablation with dry film leads to lower service and maintenance costs.
- Simplified maintenance – No carbon layer in washout cuts cleaning expenses.
- Versatile compatibility – Compatible with existing solvent processing equipment.
- Consistent quality – Premium flat top dot ensures consistency, reducing remakes and downtime.

Quality

- Flat top dots – Ensures premium stability and consistency in print.
- Sharp edges – Delivers exceptional edge sharpness and resolution.
- Higher resolution – Achieves superior print quality with SPIR@L compared to conventional screens.
- Enhanced printing – SPIR@L & GridTune improve ink laydown, density and press speed.
- Quality boost – Improves output on older flexo presses.

Performance

- Faster imaging – Four times quicker than LAMS plates.
- Consistency – Maintains high imaging speed, regardless of plate thickness.
- Enhanced printing – SPIR@L & GridTune improve ink laydown, density and press speed.
- Avoid moiré – SPIR@L screening minimizes moiré effects for greater print flexibility.

Ecology

- Reduced waste – Less ablation decreases imager filter changes.
- Efficient cleaning – The absence of a carbon layer improves solvent and aqueous washout.
- Eco-friendly – MAGIS P-Eco enables flexo plate making with aqueous processing.
- Wider print latitude – ECO3 software reduces process waste in substrates and ink.

FILM CHARACTERISTICS

Film type	Clear film for graphic applications with a thermal sensitive imageable layer tuned for 830 nm digital imaging		
Visual appearance	Green		
Imaging requirements	Low energy required (up to 4 times lower than LAMS Layers)		
Pixel addressability	2.000 to 9600 dpi		
Screening compatibility	ABS, Sublima, SPIR@L , 20µm Stochastic		
Surface pattern compatibility	GridTune		
Stability	175 µm dimensional stable PET Base		
Process	To be used for dry film lamination (DFL) to MAGIS flexo plates		
UV blocking density	≥ UV-D 4.00		
Development	Dry concept (no additional processing required)		
Handling	High visual contrast, film emulsion side protected with peal off cover foil		
Dry film sizes	470 x 625 mm (18.5 x 24.6") 635 x 780 mm (25 x 30.7") 640 x 838 mm (25.2 x 33")	838 x 1,097 mm (33 x 43") 940 x 1,230 mm (37 x 48.4") 1,085 x 1,535 mm (42.7 x 60.4")	1,097 x 1,554 mm (43.2 x 61.2") 1,274 x 2,045 mm (50.2 x 80.5") 1,283 x 2,062 mm (50.5 x 81.2")

ECO3.com ECO3 is committed to continuous innovation that targets ecology, economy and extra convenience. Our solutions are designed to deliver higher productivity, lower costs and greener outcomes.

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