

UniSyn Synthetic Paper

Let MGX Take You Somewhere Beautiful





A Revolutionary Product Line with Unparalleled Performance & Compatibility

UniSyn Synthetic Paper is a unique, multi-polymer film. Its proprietary topcoat enhances reprographic and performance characteristics across a broad spectrum of technologies while addressing many of the challenges that printers have previously encountered when running plastics. Additionally, for two-sided applications that require enhanced opacity, printers can find a solution in UniSyn Opaque.



Simplified Synthetic Printing

Mitigate the typical challenges associated with printing on plastics, stop outsourcing or passing on related jobs, regain control, and grow your business.



Enhanced Durability

Excellent machine and cross direction tear resistance, coupled with water and chemical resistance for outstanding longevity.



Faster Dry & Cure Times

Compatible with standard conventional litho inks, accelerates dry times, and improves post-cure rates for UV inks.



Optimal Color Accuracy

Superior color vibrancy and accuracy reduces make ready waste.



Superior Ink Adhesion

Topcoat chemistry anchors inks to the surface to improve rub and scuff resistance, and eliminates the need for any pre-priming.



Lasting Shelf-Life

No concern for dyne level degradation due to the topcoat technology, material still prints beautifully 12 months+ later.



Broad Compatibility

Engineered for HP Indigo, conventional & UV offset*, UV & aqueous flexo, UV inkjet, and thermal transfer.

*Ask us about UniSyn UV for a more economical solution for UV litho work.

APPLICATIONS

Commercial Printing

- Menus
- Table Tents
- Table Mats
- Maps
- Calendars
- Posters
- Folders
- Brochures
- Books
- Manuals
- Photo Albums

Retail and Packaging

- POP Graphics
- Posters
- Shelf Talkers
- Dangers
- Shelf Labels
- Signage
- Push/Pull Graphics

Identification and Security

- Visitor ID
- Insurance Cards
- Parking Tags
- Certificates
- Loyalty Cards
- Legal Documents

Tags and Labels

- Food
- Pharma
- Appliances
- Apparel
- Construction Material Tags
- Warning Labels
- Track, Trace, Transfer
- Wristbands

Outdoor

- Horticulture & Lumber Tags
- Livestock ID
- Posters
- Storefront Displays
- Public Transport



SPECIFICATIONS

PROPERTIES	UNIT	ASTM TEST METHOD	TYPICAL VALUES					
Average Thickness	Mils	D-374-C	6	8	10	12	14	16
	Micron		152	203	254	304	355	406
	GSM		141	163	199	213	256	294
Thickness Variation	%		(±) 5					
Surface Tension (min) both sides	dynes/cm ²	D-2578	>38					
Gloss (45°)	gardner	D-2457	6.1-6.7					
Opacity	%	Hunter Lab D25-2CR	>90			>95		
Whiteness Index	%	E-313	>90					
Tensile Strength	MD	D-882	7,800-8,500			8,500-9,200		
	TD		15,600-17,000			17,000-18,500		
	MD		550-600			600-650		
	TD		1,100-1,200			1,200-1,300		
Recommended Printing Technologies			HP Indigo, conventional & UV offset, UV & aqueous flexo, UV inkjet, Fuji J-Press, thermal transfer					
Available Forms			Sheets (Stocked) & Web (Custom)					
Compliance			EU 10/2011, FDA, REACH, RoHS					

ABOUT MGX

MGX is a leader in specialty substrate manufacturing, functional coating application, and precision converting services. Based in St. Louis, MO and serving customers worldwide, we are especially focused on the graphics, label, and packaging markets. MGX provides superior material solutions, expert substrate consulting, custom engineering capabilities, and personalized customer service. With over thirty years of experience, MGX excels in supplying a proven and diverse assortment of specialty substrates and coating options. Contact us, or visit our website to learn how MGX could help with your next project.