

GraphicShield™ PRODUCT APPLICATION GUIDE

UV VELVET POLYCARBONATE 5 MIL, 10 MIL & 15 MIL PRESSURE-SENSITIVE LAMINATING FILMS

GraphicShield™ UV POLYCARBONATE laminating films are coated with super-clear acrylic solvent adhesive. **UV POLYCARBONATE** laminating films are extremely durable and add a unique textured appearance when applied to posters, wide-format digital prints, photographic prints and displays. **UV POLYCARBONATE** laminating films are ideal for rollable graphics and trade show exhibits that require superior protection combined with flexibility.

PHYSICAL PROPERTIES

		5 MIL	10 MIL	15 MIL
Total Caliper (w/liner):		8.0 mils	13.5 mils	18.75 mils
Film:	Polycarbonate	5.0 mils	10 mils	15 mils
Adhesive:	Solvent Acrylic	1.5 mils	2.0 mils	2.25 mils
Release Liner:	Polyester	1.5 mils	1.5 mils	1.5 mils
Peel Adhesion		150 oz./inch	140 oz./inch	130 oz./inch
UVA Protection:		98%	98%	98%
UVB Protection:		100%	100%	100%
Shelf Life:	2 years when stored under cool, dry conditions			
Flame Resistance:	Underwriters Laboratories Classified as to Surface Burning Characteristics			
Flame Spread	10	UL - ANSI/UL-723		
Smoke Developed	70	CAN/ULC - S102M (control No. 2P72)		
ANSI	Class A			
NFPA	Class A			
UCP	Class 1			

APPLICATION GUIDELINES

Application: It is recommended to use a laminator when applying **GraphicShield™ UV POLYCARBONATE** laminating films to imaged media or the surface of a mounting substrate. A laminator will reduce the chance of wrinkles and air bubbles during application. Make sure the lamination area is clean and free from dirt or dust. **Always pretest your specific application prior to actual use.**

Outdoor and Indoor Use: **UV POLYCARBONATE** laminating films can be used for indoor and outdoor applications. They should be applied at minimum air and surface temperatures of 50° F.

Water Resistance: **UV POLYCARBONATE** laminating films will not give water resistance unless the material to be laminated is non-porous or completely encapsulated. If water migrates under the laminate, ink bleeding may occur.

Material Handling & Storage: Roll imaged media onto a core until ready for posting. Folding of the material is not recommended. Material should be stored at 72° F (+/-5°) for no more than 1 year to obtain maximum adhesion values. After use, the roll should be stored in its original packaging in the poly bag.

Processing Range:	50° to 120° F
Service Temp Range:	-30° to 225° F
Outdoor Durability:	5 years
Chemical Resistance:	Water, mild acids, salt, alkalis, petroleum based greases, oils and aliphatic solvents

FINISHING RECOMMENDATIONS

Surface Preparation: Ensure that the receiving substrate is completely dried before **GraphicShield™ UV POLYCARBONATE** laminating films are applied. If inks are not dry, the adhesion of the laminate can be adversely affected; outgassing may also occur, causing bubbles to form under the laminate.

Recommended Application Surfaces: **UV POLYCARBONATE** laminating films can be applied to imaged media or a substrate.

Laminating: **UV POLYCARBONATE** laminating films give added surface protection from dirt, abrasion and light fade. If too much tension is applied during lamination, the product may curl toward the laminated side, and the edges may lift from the release liner and/or the application surface. For optimum results, let images dry a minimum of 24 hours before laminating.



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