

GraphicShield™ PRODUCT APPLICATION GUIDE

UV CAST VINYL ULTRA GLOSS, GLOSS, LUSTER & MATTE PRESSURE-SENSITIVE LAMINATING FILMS

GraphicShield™ UV CAST VINYL ULTRA GLOSS, GLOSS, LUSTER & MATTE laminating films are clear cast 2 mil vinyl overlaminates with a permanent pressure-sensitive adhesive. **UV CAST VINYL** laminating films provide optimum viewing in any lighting environment. When used in conjunction with printable cast vinyl, either material can be used for long-term vehicle graphics or outdoor promotional signage. **UV CAST VINYL** is ideal for applications that need to conform to curved and irregular surfaces.

PHYSICAL PROPERTIES

	ULTRA GLOSS	GLOSS	LUSTER	MATTE
Total Caliper (w/liner):	4.4 mils	8.7 mils	8.7 mils	8.7 mils
Film: Cast Vinyl	2.0 mils	2.0 mils	2.0 mils	2.0 mils
Adhesive: Solvent Acrylic	1.2 mils	1.2 mils	1.2 mils	1.2 mils
Release Liner:	Polyester 1.2 mils	78 lb., Stay Flat	78 lb., Stay Flat	78 lb., Stay Flat
UVA Protection:	80%	80%	80%	80%
UVB Protection:	100%	100%	100%	100%
Shelf Life:	2 years when stored at 73°F, 50% RH			

APPLICATION GUIDELINES

Application: It is recommended to use a laminator when applying **GraphicShield™ UV CAST VINYL** 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 CAST VINYL** 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 CAST VINYL** 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:	-50° to 225° F		
Average Adhesion:	20 min., 40oz/in.	24 hr., 60oz/in.	
Outdoor Durability:	7 years		
Dimensional Stability:	(48 hrs. at 150°F) 0.01 inches		
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 CAST VINYL** laminating films are applied. If inks are not dry, the laminate adhesion can be adversely affected; outgassing may also occur, causing bubbles to form under the laminate.

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

Laminating: **UV CAST VINYL** 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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