

Specialty Computer Vinyl

621AR Air-Egress Reflective

Issued: 19-Sept-22

Product Description:

Universal Products, Inc. Premium Grade Reflective vinyl film is a high-quality reflective material that meet or exceed the applicable requirements of ASTM D 4956 Type I. It is supplied with a 78# channeled liner to provide air egress and ease of application. Typical applications for this material are high resolution digital graphics, thermo die-cuts, fleet marking and decals requiring high visibility, legibility, and durability.

Construction:

Color:	White
Film:	5.5 mil (140µm) high-gloss premium retro-reflective vinyl film
Adhesive:	Permanent
Release Liner:	78# White Kraft Air Egress

Physical Properties:

Outdoor Durability:	5-7 years - moderate climate, unprinted film, vertically applied.		
Ambient Air Application Temperature:	+50°F (10° C) through 100°F (39° C)		
Application Surface:	Flat, flat with rivets - high and moderate energy substrates and coatings. (Not recommended for use on unpainted Stainless Steel applications.)		
Service Temperature Range:	-40°F to +180°F (-40° C to +82° C) (Reasonable range of temperatures which would be expected under normal environmental time and temperature conditions.)		
Typical Film Caliper:	6.5 mils (165 µm) with adhesive.		
Chemical Resistance:	Resistant to mild acids, alkalis, and salt solutions		
Typical Adhesion Values:	180° Peels		
ASTM 1000 (lb./inch)	Substrate	10 min	24 hrs
	Stainless Steel	6.7 lbs	8.0 lbs.
Shelf Life:	One year when stored at temperatures under 73°F (23° C) and 50% RH		
Dimensional Stability:	Less than 0.030" (0.5mm). Determined by measuring shrinkage of film applied to 3" X 6" aluminum test panel followed by 48 hours of heat aging at 160°F (67° C)		
Printing Recommendations:	Thermal Transfer Printing Screen Printing using inks specifically engineered for use on Reflective PVC films. Digital Printing (Material compatible with most solvent, eco-solvent, and latex printers.) <i>Film should be trialed to confirm printability prior to running job.</i>		

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Use Guidelines:

- Reflective Series films should only be applied to clean, dry surfaces.
- Use of the "wet" application method is not recommended with Reflective Series films. ***Use of the "wet" application method will void all warranty considerations.***
- Always pre-test your specific substrate prior to actual application.
- Do not allow the adhesive to freeze for the first 48 hours following initial application.
- Reflective Series films are not repositionable products. Attempts to apply and then lift and reposition the film during application can result in film damage.
- Reflective Series films are not impact-resistant products. Application to areas that receive significant instances of repeated impact or abrasion (such as bumpers and rocker panels) should be avoided.
- Attempts to apply the product to surfaces below 50°F may result in lifting the graphic during premask removal activities.
- Reflective Series films are not recommended for use on textured surfaces, complex curvatures or low surface energy substrates or coatings such as powdercoat paint and low energy plastics.
- A reduction in long-term durability should be expected if the product is applied in a horizontal position.
- Long-term durability will be reduced in locations that experience high levels of UV light exposure (Florida, South and West Texas, New Mexico, Arizona, Nevada, Utah, California, and locations with elevations above 3000').
- When spray washing, high-pressure nozzles should be held no closer than 24" from applied graphics.
- High-pressure cleaning sprays with water pressures above 1200 psi and/or water temperatures above 120F should not be used on Reflective Series films.

The information provided herein is obtained using standard industry laboratory test methods, which are believed to be reliable. The listed average values are intended only as a source of information and are not intended for use as a specification, guarantee or warranty. The data presented is accurate at the time of publication, but subject to change without notice as product is improved. All products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes.