

Specialty Grade Polyester

2 Year - Chrome Mirror EZ

Issued: 07/09/2014

Product Description:

Universal Products, Inc. Chrome Mirror material is a rigid 1.5 mil metallized polyester with an acrylic pressure-sensitive adhesive. It is supplied on a 90# channeled release liner to provide air egress and ease of application. This product can be used for architectural signage, commercial or retail signage and point of purchase graphics.

Construction:

Film:	2.0 mil metallized polyester film
Adhesive:	Permanent acrylic, pressure-sensitive
Release Liner:	90# channeled liner

Physical Properties:

Outdoor Durability:	Up to 2 years - moderate climate, unprinted film, vertically applied. Durability can be increased up to 5 years when protected by a urethane clearcoat or exterior durable laminate.		
Ambient Air Application Temperature:	+50°F (4° C) minimum		
Application Surface:	Flat surfaces only, not suitable for curved surfaces. High and moderate energy substrates.		
Service Temperature Range:	-40°F to +250°F		
Typical Film Caliper:	3.0 mils (64 µm) with adhesive		
Chemical Resistance:	Resistant to most petroleum based oils, greases and aliphatic solvents. Resistant to mild acids, alkalis and salt solutions		
Water Resistance:	Excellent		
Humidity Resistance:	Excellent		
Typical Adhesion Values:	180° Peels		
ASTM 1000 (lb./inch)	Substrate	10 min.	24 hrs (after 1wk @ 160F)
	Stainless Steel	3.5 lbs. (613 N/m)	4.0 lbs. (700 N/m)
Shelf Life:	One year when stored at temperatures under 73°F (23° C) and 50% RH		
Dimensional Stability:	Less than 0.005" (0.1mm). 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)		
Elongation:	~1%		
Printing Recommendations:	Thermal Transfer Printing Screen Printing		

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Use Guidelines:

- Chrome Mirror films should only be applied to flat, clean and dry surfaces.
- Use of the "wet" application method is not recommended with Chrome Mirror films.
- Attempts to apply the product to surfaces below 50F may result in poor adhesion and graphic lifting during premask removal.
- Chrome Mirror 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 Chrome Mirror 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.