

Avery[®] UC 900 Ultimate Cast Series

Specialty Window Effect Films – Permanent - Kraft

(formerly: A5000 Series Series – Kraft)

Revision: New Dated: 1/6/2009

Uses:

Avery Graphics™ UC 900 Specialty Effect films are specialty cast vinyl film that provides the look of real etched glass at a fraction of the cost by eliminating the need for sandblasting.



Face: 2.1 mil (53 microns) high gloss cast film



Adhesive: Clear Permanent Acrylic



Liner: 78# Bleached Kraft



Durability: Up to 10 years

Application Surfaces:

Flat, Flat with Rivets

Features:

- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Special etched window effects

Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting

- Thermal Transfer
- Screen Printing
- Cold Overlaminating
- Water based inkjet

- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet

Common Applications:

Marine
Architectural Signage

Directional Signage
Privacy Windows

Etched glass effects

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Physical Characteristics:

Property	Value
Caliper, face	2.1 mil (53 53 µm)
Caliper, adhesive	1.0mil (25 µm)
Dimensional stability	<0.015”(0.4mm)
Tensile at Yield	4.0 – 9.0 lb/in (0.7–1.6 kg/cm)
Elongation	100% min.
Gloss	15-30
Adhesion: 15 min.	2.5 lbs/in (438 N/m)
24 hr.	3.6 lbs/in (630 N/m)
Flammability	Self Extinguishing
Shelf-Life	1 year
Durability	Vertical Exposure 5 years
Light Transmission Values	900-861 Etchmark >70% 900-862 Frosted Sparkle ~65%
Min. Application Temperature	40°F (4°C)
Service Temperature	-50° - 180°F (-45° - 82°C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance	Resistant to most mild acids, alkalis, and salt solutions.

Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

Warranty:

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Colors: Cross Reference

SPECIALTY SERIES - 78#	AVERY 100 SPECIALTY FILMS PERMANENT KRAFT	SPECIALTY SERIES - 78#	AVERY 100 SPECIALTY FILMS PERMANENT KRAFT
A5861-S Etchmark	UC 900-861-W Etchmark	A5862-S Frosted Sparkle	UC 900-862-W Frosted Sparkle

COMMENTS: When paneling material, keep the machine direction of the panels in the same direction to maintain appearance continuity.

NOTE: Some color fade may occur in severe environmental areas. Reference IB 1.30 for durability guidelines.

Dimensional stability:

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°C), after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

Flammability:

A specimen applied to aluminum is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Revisions are italicized

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