

# Avery<sup>®</sup> UC 900 Ultimate Cast Series

## Metallics Permanent Kraft & StaFlat

(formerly: A3, A5, A7 Metallic & Ultrametallic Series Permanent Kraft or 90# StaFlat )

Revision: 1      Dated: 9/29/2009

### Uses:

Avery Graphics<sup>™</sup> UC 900 Series Metallic and Ultrametallic cast vinyl films are premium quality, flexible, opaque solid color, high gloss metallic vinyl films designed for use as a premium architectural, transportation, striping, accent graphics, and general signage markings. Avery Graphics<sup>™</sup> UC 900 Series Metallic and Ultrametallic series offers exceptional value for applications requiring extended durability.



**Face:** Met - 2.1 mil (53 µm)  
UM – 3.0 mil (76 µm)



**Adhesive:** Permanent Acrylic  
(clear or gray)



**Liner:** 78# White, Poly-Coated or  
90# StaFlat



**Durability:** Up to 7 years

**Application Surfaces:**

UM – Flat  
Met – Flat, Flat & Rivets

### Features:

- Outstanding durability and outdoor performance
- Superior conformability to irregular substrates
- Dimensionally stable liner for easy converting
- High gloss finish
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Custom colors available (contact your sales or customer service representative)

### 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

\* refer to Instructional Bulletin 3.00 for ink recommendations

### Common Applications:

Trucks  
Trailers  
Cars & Vans  
Marine

Architectural Signage  
Directional Signage  
Emergency Vehicles  
Roll Stripes

Trains & light rail  
Buses  
Recreational Vehicles

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## Physical Characteristics:

Property		Value
Caliper, face	Metallic	2.1 mil (53 µm)
	Ultrametallic	3.0 mil (76 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.015"(0.4mm)
Tensile at Yield	Metallic	4.0-8.0lb/in (0.7-1.5 kg/cm)
	Ultrametallic	4.0-9.0lb/in (0.7-1.7 kg/cm)
Elongation	Metallic	50% min.
	Ultrametallic	25% min
Gloss		90
Adhesion: 24 hr.	Metallic	4.0 lbs/in (700 N/m)
	Ultrametallic	3.0 lbs/in (525 N/m)
1 week	Metallic	4.5 lbs/in (788 N/m)
	Ultrametallic	4.0 lbs/in (700 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	
	Metallic	Up to 7 years
	Ultrametallic	Up to 5 years
Min. Application Temperature	Metallic	40°F (4°C)
	Ultrametallic	45°F (7°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:

All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

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### Colors: Cross Reference

A3 / A5 / A7 METALLIC / ULTRA METALLIC SERIES	AVERY 900 ULTIMATE CAST METALLICS PERMANENT KRAFT	A3 / A5 / A7 METALLIC / ULTRA METALLIC SERIES	AVERY 900 ULTIMATE CAST METALLICS PERMANENT KRAFT
A3713-M Bright Gold	UC 900-213-M Bright Gold $\Delta$	A7706-M Gunmetal	UC 900-806-M Gunmetal
A3715-M Gold	UC 900-215-M Gold $\Delta$	A7708-M Medium Charcoal	UC 900-808-M Medium Charcoal
A3717-M Light Gold	UC 900-217-M Light Gold $\Delta$	A7709-M Dark Charcoal	UC 900-809-M Dark Charcoal
A3730-M Bronze	UC 900-930-M Bronze	A7711-M Black	UC 900-190-M Black
A5701-M Silver	UC 900-801-M Silver	A7723-M Light Briar Brown	UC 900-923-M Light Briar Brown
A5720-M Champagne Mist	UC 900-207-M Champagne Mist	A7738-M Red	UC 900-440-M Red
A5728-M Antique Bronze	UC 900-928-M Antique Bronze	A7740-M Autum Maple	UC 900-455-M Autum Maple
A5732-M Copper	UC 900-932-M Copper	A7742-M Mist Blue	UC 900-641-M Mist Blue
A5777-M Ultra Silver	UC 900-877-M Ultra Silver $\pm$ $\S$	A7744-M Sea Blue	UC 900-644-M Sea Blue
A5778-M Ultra Black	UC 900-190-M Ultra Black $\pm$ $\S$	A7746-M Bright Blue	UC 900-646-M Bright Blue
A5779-M Ultra Gold	UC 900-215-M Ultra Gold $\pm$ $\S$	A7747-M Electric Blue	UC 900-647-M Electric Blue
A5781-M Ultra Red	UC 900-481-M Ultra Red $\pm$ $\S$	A7749-M Royal Blue	UC 900-683-M Royal Blue
A5785-M Ultra Rose Quartz	UC 900-585-M Ultra Rose Quartz $\pm$ $\S$	A7751-M Grand Blue	UC 900-651-M Grand Blue
A5786-M Ultra Amethyst	UC 900-586-M Ultra Amethyst $\pm$ $\S$	A7753-M Dark Royal Blue	UC 900-653-M Dark Royal Blue
A5788-M Ultra Blue	UC 900-688-M Ultra Blue $\pm$ $\S$	A7760-M Purple	UC 900-565-M Purple
A5790-M Ultra Cobalt	UC 900-694-M Ultra Cobalt $\pm$ $\S$	A7767-M Dark Teal	UC 900-730-M Dark Teal
A5791-M Ultra Beryl	UC 900-791-M Ultra Beryl $\pm$ $\S$	A7770-M Hunter Green	UC 900-779-M Hunter Green
A7704-M Pewter	UC 900-804-M Pewter	A7772-M Pine Green	UC 900-784-M Pine Green
A7705-M Charcoal	UC 900-805-M Charcoal	A7706-M Gunmetal	UC 900-806-M Gunmetal
A5827-S White Pearlescent	UC 900-101-S White Pearlescent $\S$	A5862-S Frosted Sparkle	UC 900-862-W White Sparkle $\Delta$ $\S$

**COMMENTS:**

$\Delta$  - 3 year durability

$\pm$  - 5 year durability

$\S$  - pigmented adhesive

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.

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## **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*