

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

## Opaque Permanent Kraft & StaFlat

(formerly: A9 Opaque Series – 78# and XL1000 Series Permanent 78#/90#Staflat)

Revision: 2      Dated: 7/23/2009

### Uses:

Avery UC-900 series cast films are premium quality, flexible, opaque solid color high gloss vinyl films designed for use in a wide range of outdoor advertising, fleet marking, of outdoor uses where excellent durability, conformability, color, and gloss are required.



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



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



**Liner:** 78# Bleached Kraft or 90# StaFlat



**Durability:** Up to 10 years

### Application Surfaces:

Flat, Flat with Rivets, Corrugations.

### Features:

- Available in Pantone<sup>®</sup> Color simulations
- 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 representative)

### Conversion:

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

- Thermal Transfer
- Screen Printing (*StaFlat*)
- Cold Overlaminating
- Water based inkjet

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

### Common Applications:

Trucks  
Trailers  
Cars & Vans  
Marine

Architectural Signage  
Directional Signage  
Emergency Vehicles  
Trains & light rail

Buses  
Outdoor advertising

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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 - 8.0 lb/in (0.7–1.5 kg/cm)
Elongation	100% min.
Gloss	90%
Adhesion: 15 min.	3.0 lbs/in (525 N/m)
24 hr.	4.0 lbs/in (700 N/m)
Flammability	Self Extinguishing
Shelf-Life	1 year
Durability	Vertical Exposure
	Black & White 10 years
	Colors & Clear Up to 9 years
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:

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.

## Product Data Sheet

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Graphics & Reflective Products Division  
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Colors: Cross Reference

A9 OPAQUE SERIES - 78#	AVERY 900 UTLIMATE CAST OPAQUE PERMANENT KRAFT	A9 OPAQUE SERIES - 78#	AVERY 900 UTLIMATE CAST OPAQUE PERMANENT KRAFT
A9001-O White	UC 900-101-O White	A9415-O Blossom	UC 900-515-O Blossom ± □
A9002-O Matte White	UC 900-102-O Matte White	A9430-O Magenta	UC 900-530-O Magenta
A9003-O Clear	UC 900-103-O Clear	A9435-O Raspberry	UC 900-535-O Raspberry
A9004-O Matte Clear	UC 900-104-O Matte Clear	A9440-O Plum	UC 900-540-O Plum
A9005-O True White	UC 900-105-O True White	A9450-O Deep Purple	UC 900-550-O Deep Purple
A9010-O Light Gray	UC 900-810-O Light Gray	A9465-O Purple	UC 900-565-O Purple
A9020-O Palm Oyster	UC 900-820-O Palm Oyster	A9475-O Lavender	UC 900-575-O Lavender
A9025-O Light Ash Gray	UC 900-825-O Light Ash Gray	A9501-O Pantone Blue 072 C	UC 900-601-O Pantone 072 C § □
A9030-O Slate Gray	UC 900-830-O Slate Gray	A9502-O Pantone 277 C Baby Blue	UC 900-602-O Pantone 277 C § □
A9035-O Medium Gray	UC 900-835-O Medium Gray	A9503-O Pantone 279 C Tropical Blue	UC 900-603-O Pantone 279 C § □
A9050-O Pewter	UC 900-804-O Pewter	A9505-O Copenhagen	UC 900-605-O Copenhagen
A9055-O Dark Gray	UC 900-855-O Dark Gray	A9515-O Cadet Blue	UC 900-615-O Cadet Blue
A9060-O Medium Marine Gray	UC 900-860-O Medium Marine Gray	A9520-O Shadow Blue	UC 900-620-O Shadow Blue
A9069-O Pantone 877 C Silver Shimmer	UC 900-869-O Pantone 877 C ± □	A9525-O Majestic Blue	UC 900-625-O Majestic Blue
A9080-O Matte Black	UC 900-180-O Matte Black	A9526-O Pantone 285 C Wave Blue	UC 900-626-O Pantone 285 C § □
A9090-O Black	UC 900-190-O Black	A9528-O Pantone 286 C Midnight Blue	UC 900-628-O Pantone 286 C § □
A9102-O Luminous Yellow	UC 900-202-O Luminous Yellow □	A9530-O Olympic Blue	UC 900-630-O Olympic Blue
A9105-O Butter	UC 900-205-O Butter □	A9540-O Light Blue	UC 900-640-O Light Blue
A9106-O Pantone Process Yellow C	UC 900-206-O Pantone Process Yellow C ± □	A9545-O Peacock Blue	UC 900-645-O Peacock Blue §
A9113-O Pantone 109 C Lemon Zest	UC 900-216-O Pantone 109 C ± □	A9550-O Powder Blue	UC 900-650-O Powder Blue
A9120-O Canary Yellow	UC 900-220-O Canary Yellow	A9552-O Butterfly Blue	UC 900-652-O Butterfly Blue
A9130-O Medium Yellow	UC 900-230-O Medium Yellow □	A9555-O Medium Blue	UC 900-655-O Medium Blue
A9140-O Sunflower Yellow	UC 900-240-O Sunflower Yellow	A9557-O Pantone 292 C Bayshore	UC 900-657-O Pantone 292 C § □
A9150-O Dark Yellow	UC 900-250-O Dark Yellow	A9559-O Pantone 293 C Slate Blue	UC 900-659-O Pantone 293 C § □
A9155-O Apricot	UC 900-355-O Apricot	A9565-O Intense Blue	UC 900-665-O Intense Blue
A9160-O Orange	UC 900-360-O Orange	A9570-O Vivid Blue	UC 900-670-O Vivid Blue
A9160-O Pantone Orange 021 C	UC 900-362-O Pantone 021 C ± □	A9575-O Interstate Blue	UC 900-675-O Interstate Blue
A9180-O Bright Orange	UC 900-380-O Bright Orange	A9578-O Pantone 300 C Peacock	UC 900-678-O Pantone 300 C □
A9205-O Parchment	UC 900-905-O Parchment	A9579-O Pantone Reflex Blue	UC 900-679-O Pantone Reflex Blue C § □
A9210-O Almond	UC 900-910-O Almond	A9580-O Sapphire Blue	UC 900-680-O Sapphire Blue
A9220-O Beige	UC 900-920-O Beige	A9582-O Pantone Process Blue C	UC 900-682-O Pantone Process Blue C § □
A9230-O Dark Beige	UC 900-921-O Dark Beige	A9590-O Light Navy	UC 900-690-O Light Navy
A9235-O Putty	UC 900-935-O Putty	A9595-O Dark Blue	UC 900-695-O Dark Blue
A9240-O Camel	UC 900-940-O Camel	A9597-O Dark Navy Blue	UC 900-697-O Dark Navy Blue
A9250-O Imitation Gold	UC 900-253-O Imitation Gold	A9603-O Seafoam Green	UC 900-703-O Seafoam Green
A9252-O Pantone 466 C Dark Taupe	UC 900-952-O Pantone 466 C	A9605-O Dark Aqua	UC 900-705-O Dark Aqua
A9260-O Terra Cotta	UC 900-960-O Terra Cotta	A9609-O Light Sage	UC 900-709-O Light Sage
A9265-O Sandstone	UC 900-965-O Sandstone	A9610-O Spectra Everglade	UC 900-710-O Spectra Everglade
A9270-O Buckskin	UC 900-970-O Buckskin	A9615-O Real Teal	UC 900-715-O Real Teal
A9278-O Cocoa	UC 900-978-O Cocoa	A9620-O Teal	UC 900-720-O Teal
A9295-O Brown	UC 900-995-O Brown	A9626-O Pantone 354 C Clover Green	UC 900-726-O Pantone 354 C § □
A9304-O Warm Red	UC 900-404-O Warm Red □	A9630-O Dark Teal	UC 900-730-O Dark Teal
A9305-O Pantone 1797 C Holiday Red	UC 900-405-O Pantone 1797 C § □	A9632-O Lime Aid	UC 900-732-O Lime Aid
A9306-O Pantone Red 032 C	UC 900-406-O Pantone 032 C □	A9633-O Aquamarine	UC 900-733-O Aquamarine
A9315-O Tangerine	UC 900-315-O Tangerine	A9634-O Pantone 375 C Jungle Green	UC 900-734-O Pantone 375 C § □
A9317-O Real Red	UC 900-417-O Real Red	A9635-O Nautical Blue	UC 900-635-O Nautical Blue
A9318-O Luminous Red	UC 900-418-O Luminous Red □	A9640-O Spruce Green	UC 900-740-O Spruce Green

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A9321-O Pantone 485 C Firecracker	UC 900-421-O Pantone 485 C ± □	A9650-O Dark Ivy	UC 900-750-O Dark Ivy
A9325-O Tomato Red	UC 900-425-O Tomato Red	A9655-O Vibrant Green	UC 900-755-O Vibrant Green □
A9330-O Cardinal Red	UC 900-430-O Cardinal Red	A9660-O Apple Green	UC 900-760-O Apple Green
A9345-O Fire Red	UC 900-445-O Fire Red □	A9665-O Olive Green	UC 900-765-O Olive Green
A9350-O Dark Red	UC 900-450-O Dark Red	A9670-O Kelly Green	UC 900-770-O Kelly Green
A9360-O Spectra Red	UC 900-460-O Spectra Red □	A9672-O Grow Green	UC 900-772-O Grow Green
A9365-O Apple Red	UC 900-465-O Apple Red	A9675-O Bright Green	UC 900-775-O Bright Green
A9370-O Burgundy	UC 900-470-O Burgundy	A9685-O Forest Green	UC 900-785-O Forest Green
A9380-O Burgundy Maroon	UC 900-480-O Burgundy Maroon	A9690-O Deep Green	UC 900-790-O Deep Green
A9411-O Pantone Process Magenta C	UC 900-511-O Pantone Process Magenta C □ ±	A9693-O Dark Green	UC 900-793-O Dark Green
A9413-O Pantone Violet C	UC 900-513-O Pantone Violet C ± □	A9695-O Polo Green	UC 900-795-O Polo Green

XL 1000 OPAQUE SERIES - 78#	AVERY 900 ULTIMATE CAST OPAQUE PERMANENT KRAFT	XL 1000 OPAQUE SERIES - 78#	AVERY 900 ULTIMATE CAST OPAQUE PERMANENT KRAFT
XL 1001 White <i>XL1002 White</i>	UC 900-101-O White <i>UC 900-108-O Cover White</i>	XL 1003 Black	UC 900-190-O Black

XL 1000 OPAQUE SERIES - 90#	AVERY 900 ULTIMATE CAST OPAQUE PERMANENT STAFLAT™	XL 1000 OPAQUE SERIES - 90#	AVERY 900 ULTIMATE CAST OPAQUE PERMANENT STAFLAT™
XL 1000 Clear	UC 900-103-O Clear	XL 1017 Sapphire Blue	UC 900-680-O Sapphire Blue
<i>XL 1002 White</i>	<i>UC 900-108-O Cover White</i>	XL 1018 Vivid Blue	UC 900-670-O Vivid Blue
XL 1003 Black	UC 900-190-O Black	XL 1022 Dark Gray	UC 900-855-O Dark Gray
XL 1007 Canary Yellow	UC 900-220-O Canary Yellow	XL 1032 Dark Green	UC 900-793-O Dark Green
XL 1008 Sunflower	UC 900-240-O Sunflower	XL 1042 Light Navy	UC 900-690-O Light Navy
XL 1010 Bright Orange	UC 900-380-O Bright Orange	XL 1044 Intense Blue	UC 900-665-O Intense Blue
XL 1011 Tomato Red	UC 900-425-O Tomato Red	XL 1100 Matte Clear	UC 900-104-O Matte Clear
XL 1012 Cardinal Red	UC 900-430-O Cardinal Red	XL 1101 Matte White	UC 900-102-O Matte White
XL 1013 Dark Red	UC 900-450-O Dark Red	XL 1103 Matte Black	UC 900-180-O Matte Black
XL 1014 Burgundy	UC 900-470-O Burgundy	XL 1300 Ultra Destructible	UC 900-101-O White Ultra Destructible

COMMENTS:  
 □ - pigmented adhesive, not reversible  
 ± - 6 year durability  
 § - 8 year durability

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:

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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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