

# Avery Dennison® UC900 Ultimate Cast Series Translucent Permanent Transparent Synthetic

Opaque Permanent

Revision: 8 Dated: 12/03/20

## Uses:

Avery Dennison UC900 Ultimate Cast Translucent films are high performance, flexible, translucent cast vinyl films which are especially suited for architectural graphic applications involving flexible and rigid backlit signage and awnings, as well as window graphics. Avery Dennison UC900 Ultimate Cast Translucent films maintain consistent color under both transmitted and reflected lighting conditions and adhere to a wide variety of properly prepared substrates. UC900 Ultimate Cast Translucent films may also be used with thermo-forming, backlit applications. Should be applied to flexible backlit scrim, glass, polycarbonates, and acrylics (should be tested prior to use).



**Face:** 2.5 mil (64 microns) cast film



**Adhesive:** Clear Permanent Acrylic



**Liner:** 3.0 mil transparent

**Application Surfaces:** Flat

## Features:

- Outstanding durability and outdoor performance
- PET liner for easy converting and wet application
- PET liner for smooth consistent finish
- Matte 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
- Thermal Transfer
- Steel Rule Die-Cut
- Thermoforming
- Flatbed Sign-Cut
- Drum Roller Sign-Cut

## Common Applications:

- Architectural Signage
- Outdoor Advertising
- Directional Signage

## Product Data Sheet

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## Physical Characteristics:

Property	Measurement	Typical Value
Caliper, face		2.5 mil (64 microns)
Caliper, adhesive		1.0 mil (25 µm)
Dimensional stability		<0.015"(0.4 mm)
Tensile at Yield		4.0 - 8.0 lb/in (0.7 - 1.5 kg/cm)
Elongation		100% min.
Gloss	Hunter Gloss @ 60 degrees	20 GU
Adhesion:	15 min 24 hr	2.2 lbs/in (385 N/m) 3.0 lbs/in (525 N/m)
Flammability	FMVSS302	Self Extinguishing
Shelf-Life		2 years from the date of manufacture (when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.)
Durability	Vertical Exposure	Reference color and warranty charts in this data sheet.
Min. Application Temperature		40° F (4° C)
Service Temperature		-50° to 180°F (-45° to 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

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Data represents average values where applicable, and is not intended for specification purposes.

## Warranty:

This Warranty applies to the Product listed in this Data Sheet. All statements, technical information (including physical and chemical characteristics) 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 subject to the Purchaser's assent and agreement that Purchaser is responsible for, and has independently determined, the suitability of such products for its purposes or its customer's purposes. Avery Dennison products are warranted to be free from defects in material and workmanship (i) for two years from the date of manufacture, or (ii) from the date of manufacture until the expiration of the period stated on the specific Product Data Sheet in effect at the time of delivery. Such time periods are subject in either case to the proper storing and application of said product, and the failure to properly store or apply the product, including without limitation the failure to follow any applicable Instructional Bulletin, negates any warranty. 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 exclusively to: (a) repair or replacement of defective product without charge at Avery Dennison's plant or at the location of the product (at Avery Dennison's election), or (b) in the event repair or replacement are not commercially practical, a credit amount up to the price of the product taking into account the defect in the product in Avery Dennison's sole discretion.

THE WARRANTY EXPRESSLY SET FORTH ABOVE IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR USE AND/OR NON-INFRINGEMENT. SELLER 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.

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.

All sales and contracts for sale of Products are subject to Purchaser's assent and agreement to this Warranty. Avery Dennison hereby objects to any terms or conditions contained in any purchase order or other communication of any kind from the Purchaser that is conflicting, inconsistent or additional to this Agreement.

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## Related Documents:

The following Avery Dennison literature will provide necessary information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison representative or from the Avery Dennison website ([graphics.averydennison.com](http://graphics.averydennison.com)).

Document Title	Reference Number
Substrate Cleaning and Preparation	<a href="#">Instructional Bulletin # 1.10</a>
Storage, Maintenance and Cleaning of PVC Films	<a href="#">Instructional Bulletin # 1.20</a>
Durability of Films	<a href="#">Instructional Bulletin # 1.30</a>
Converting Tips for Sign Films	<a href="#">Instructional Bulletin # 2.10</a>
Thermoforming of Translucent Films	<a href="#">Instructional Bulletin # 2.20</a>
Applying Translucent Films to Flex Face	<a href="#">Instructional Bulletin # 4.01</a>

## Colors & Expected Durability

Vertical Durability for Zone 1 vertical applications is noted in the chart below. Color samples are available from [samples.graphics@averydennison.com](mailto:samples.graphics@averydennison.com), or through your sales or customer service contact. Reference Instructional Bulletin 1.30 for zones by geographic location.

**NOTE:** Some color fade may occur in severe environmental areas. Reference [IB 1.30](#) for durability guidelines.

## Colors Cross Reference - Opaque:

UC900 Series Name	Vertical Durability Zone 1 Years	UC900 Series Name	Vertical Durability Zone 1 Years
UC900-101-T White	9	UC900-603-T Cornflower Blue	7
UC900-181-T Onyx	9	UC900-619-T Bright Teal	7
UC900-198-T Dark Roast	9	UC900-626-T French Blue	7
UC900-214-T Yellow Jacket	9	UC900-661-T Capri Blue	7
UC900-216-T Sunshine Yellow	7	UC900-668-T Island Blue	7
UC900-246-T Marigold	7	UC900-684-T Deep Sea Blue	7
UC900-254-T Vivid Gold	3	UC900-685-T Ultramarine	7
UC900-360-T Orange	9	UC900-686-T Cobalt Blue	7
UC900-361-T Goldfish Orange	7	UC900-691-T Twilight Blue	7
UC900-408-T Coral Red	7	UC900-692-T Real Blue	9
UC900-421-T Red Orange	7	UC900-693-T Neptune Blue	7
UC900-424-T Light Tomato Red	9	UC900-722-T Amazonite Teal	7
UC900-428-T Imperial Red	7	UC900-726-T Parakeet Green	7
UC900-434-T Vivid Red	9	UC900-734-T Citrus Green	7
UC900-440-T Red	9	UC900-762-T Palm Green	7
UC900-468-T Wine Red	7	UC900-783-T Safari Green	7
UC900-470-T Burgundy	7	UC900-792-T Holly Green	7
UC900-516-T Fuchsia	6	UC900-811-T Fog Grey	9

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UC900-546-T Plum	7	UC900-837-T Cement Grey	9
UC900-560-T Bright Purple	6	UC900-869-T Light Silver	3
UC900-602-T Pearl Blue	7		

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

## Special Considerations:

Because of the unique properties and varieties of glass, special considerations must be considered for windows and graphic applications. Avery Dennison accepts no liability for glass breakage.

- Glass absorbs heat when exposed to sunlight. The degree of absorption across windows can vary because of shading, heating, and cooling ventilation, and insulation from window frames. These temperature differences across the window produce stress, which can cause glass breakage. The ability of glass to resist breakage because of temperature stress is affected by window size, glass thickness, glass treatments, quality, and design.
- Window cleaning methods also vary, from the type of cleaners used, to the washing methods employed. Specific chemicals used in window cleaners may affect the adhesion of pressure-sensitive graphics. Power washing methods may impact the adhesion of graphics, if the water pressure or temperature exceeds the graphics adhesion capability.

Revisions are italicized

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