

# Avery Dennison® SC900 Super Cast Series Decorative Window Films - Etchmark, Frosted Sparkle & Dusted Crystal

Revision: 7

Dated: 03/07/22

## Uses:

Avery Dennison® SC900 Decorative Window films are specialty cast vinyl film that provide the look of real etched glass at a fraction of the cost by eliminating the need for sandblasting. For use on architectural doors, windows and other flat applications. The dusted crystal is available in both Luster and Matte finishes.



**Face:** Etchmark & Frosted Sparkle - 2.1 mil (53µm) cast film  
*Dusted Crystal: 2.4 mil (61µm)*



**Adhesive:** Etchmark & Frosted - Permanent Clear Acrylic  
*Dusted Crystal - Removable*



**Liner:** Etchmark & Frosted Sparkle - 78# Bleached Kraft or 3 mil PET  
*Dusted Crystal - 2 mil PET*

**Application Surfaces:** Flat

## 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-Cutting (PET Liner)
- Steel Rule Die-Cut
- Roll Fed Sign-Cut

## Common Applications:

- Decorative Windows
- Partitions/Movable Walls (smooth, non-textured)
- Privacy Windows
- Directional Signage
- Etched Glass Effects
- Architectural Signage

## Product Data Sheet

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## Decorative Window Films

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#### Physical Characteristics:

| Property   | Measurement   | Typical Value   |
|--|---|---|
| Caliper, face  |   | Etchmark & Frosted Sparkle - 2.1 mil (53 µm)<br><i>Dusted Crystal - 2.4 mil (61µm)</i>  |
| Caliper, adhesive  |   | Etchmark & Frosted Sparkle - 1.0 mil (25 µm)<br><i>Dusted Crystal - 0.85 mil (22 µm)</i>  |
| Dimensional stability  |   | <0.015" (0.4 mm)  |
| Tensile at Yield   |   | Etchmark & Frosted Sparkle - 4.0 - 9.0 lb/in (0.7 - 1.6 kg/cm)<br><i>Dusted Crystal - 2.5 - 3.5 lb/in (0.4 - 0.6 kg/cm)</i>                                     |
| Elongation   |   | 100% min.   |
| Gloss  | Hunter Gloss @ 60 degrees                                 | Etchmark & Frosted Sparkle - 15-30 GU<br><i>Dusted Crystal</i><br><i>luster - 20 GU</i><br><i>matte - 3.2 GU</i>  |
| Adhesion:<br>Etchmark & Frosted Sparkle -<br><i>Dusted Crystal</i> | stainless steel<br>15 min<br>24 hr<br><br>15 min<br>24 hr | 2.5 lbs/in (538 N/m)<br>3.6 lbs/in (630 N/m)<br><br>0.8 lbs/in (140 N/m)<br>1.0 lbs/in (175 N/m)  |
| Flammability   | FMVSS 302<br>ASTME84                                      | Self Extinguishing<br><a href="#">Class 1 or A rating</a>   |
| Shelf-Life   |   | 2 years from 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   |
| Light Transmission Values  |   | 900-861 Etchmark = >70%<br>900-862 Frosted Sparkle = ~65%<br><i>SC900-866-W Dusted Crystal Luster = ~91.5</i><br><i>SC900-867W Dusted Crystal Matte = ~88.4</i> |

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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.

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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 ([www.graphics.averydennison.com](http://www.graphics.averydennison.com)).

| Document Title   | Reference Number                     |
|--|--------------------------------------|
| Substrate Cleaning and Preparation                       | Instructional Bulletin # 1.10        |
| Storage, Maintenance and Cleaning of PVC Films           | Instructional Bulletin # 1.20        |
| Durability of Films                                      | Instructional Bulletin # 1.30        |
| Converting Tips for Sign Films                           | Instructional Bulletin # 2.10        |
| <i>Wet Application Method</i>                            | <i>Instructional Bulletin # 4.20</i> |
| Tips for Overlaminating, Premasking & Packaging Graphics | Instructional Bulletin # 5.50        |

#### Expected Durability

Vertical Durability for Zone 1 vertical applications is noted in the chart below. 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.

|                              | Vertical Durability<br>Zone 1 Years |
|------------------------------|-------------------------------------|
| SC 900-861-W Etchmark        | 5                                   |
| SC 900-862-W Frosted Sparkle | 5                                   |

| SC900-866-W Dusted Crystal Luster &<br>SC900-867-W Dusted Crystal Matte | Warranted Durability<br>Vertical / Zone 1 Years |
|---|---|
| Interior (non perimeter glass)  | 15  |
| Interior perimeter glass  | 8   |
| Exterior (vertical glass)   | 5   |
| Plastic Application Surfaces*   | 1   |

\*polycarbonate and acrylic only

Reference IB 1.30 for durability guidelines.

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#### Optical and Solar Properties \*\*

| <i>Glass</i>                                 | <i>Film only</i>             |                             | <i>Applied on 1/8" (3mm) clear glass</i> |                             |
|--|------------------------------|-----------------------------|--|-----------------------------|
| <i>Product</i>                               | <i>Dusted Crystal Luster</i> | <i>Dusted Crystal Matte</i> | <i>Dusted Crystal Luster</i>             | <i>Dusted Crystal Matte</i> |
| <i>Visible Light Transmitted %</i>           | 91                           | 88                          | 89                                       | 87                          |
| <i>Visible Light Reflected (Int) %</i>       | 8                            | 8                           | 8  | 8                           |
| <i>Visible Light Reflected (Ext) %</i>       | 9                            | 11                          | 9  | 11                          |
| <i>Total Solar Energy Rejected %</i>         | 9                            | 12                          | 15                                       | 17                          |
| <i>U V Block %</i>                           | 72                           | 73                          | 74                                       | 75                          |
| <i>Total Solar Energy Reflected %</i>        | 8                            | 10                          | 8  | 9                           |
| <i>Total Solar Energy Transmitted %</i>      | 90                           | 87                          | 83                                       | 80                          |
| <i>Total Solar Energy Absorbed %</i>         | 2                            | 3                           | 9  | 11                          |
| <i>Shading Coefficient</i>                   | 1.04                         | 1.01                        | 0.98                                     | 0.95                        |
| <i>Solar Heat Gain Coefficient (G value)</i> | 0.91                         | 0.88                        | 0.85                                     | 0.83                        |
| <i>Emissivity (Room side)</i>                | 0.82                         | 0.82                        | 0.82                                     | 0.82                        |
| <i>U-Value Winter</i>                        | 1.05                         | 1.05                        | 1.03                                     | 1.03                        |
| <i>K-Value Winter</i>                        | 5.96                         | 5.96                        | 5.86                                     | 5.86                        |
| <i>Glare Reduction %</i>                     | -                            | -                           | 0  | 4                           |
| <i>Luminous Efficacy</i>                     | 0.88                         | 0.87                        | 0.91                                     | 0.91                        |
| <i>Light to Solar Gain Ratio (LSG)</i>       | 1.006                        | 1.000                       | 1.05                                     | 1.042                       |
| <i>Summer Solar Heat Gain Reduction %</i>    | -                            | -                           | 1  | 4                           |
| <i>Winter Heat Loss Reduction %</i>          | -                            | -                           | 1  | 1                           |
| <i>Summer Heat Loss Reduction %</i>          | -                            | -                           | 1.2                                      | 1.2                         |

\*\*Performance results are calculated on 3 mm glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards and are only intended for estimating purposes.

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## 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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