

Avery Dennison® SkyWay™ Bird Film

Revision: 0

Dated: 10/03/24

Uses:

Avery Dennison® SkyWay™ Bird Film is an American Bird Conservancy-recommended product designed to effectively reduce bird glass collisions.

This exterior architectural window film is designed with a specific 2"x2" spaced pattern of 1/4 inch neutral-colored dots to deter birds from colliding with windows. SkyWay's specialty neutral design breaks the reflection on glass, allowing birds to see that there is an obstruction, yet not hindering the interior view for building tenants.



Face: 4 mil (101 µm) Polyester



Adhesive: Permanent Clear Acrylic Pressure-Sensitive Adhesive



Liner: 2 mil (50 µm) PET

Application Surfaces: Exterior Flat Glass

Features:

- Cost-effective, retrofit solution to effectively reduce bird strikes
- Deters birds from flying into glass with a 2"x2" spaced pattern of 1/4 inch neutral-colored dots
- Recommended by the American Bird Conservancy
- Material Threat Factor of 15
- GSA: 3.6.7 BIRD-SAFE BUILDING DESIGN (United States)
- CSA A460:19 Bird Friendly Design Standard (Canada)
- LEED Innovation Credit v4.1 Bird Collision Deterrence
- Optically clear, UV stabilized construction with neutral dot pattern
- Durable, weather-resistant and scratch-resistant film with excellent UV protection

Conversion:

- Cut out of box
- Trim on glass
- Cut with Film Handler
- Wet-apply

Common Applications:

- Exterior flat glass, acrylic and polycarbonate:
- Commercial and residential buildings
- Recreational buildings/stadiums
- Community, public and government buildings

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Physical Characteristics:

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

Property	Measurement	Typical Value
Caliper, Face		4 mil (101 µm)
Tensile Strength		30,000 lbs/in ² (2,110 kg/cm ²)
Puncture Test	ASTM 4830	70 lbs (32 kg)
Adhesion: (peel strength)		>2,500 g/in (985g/cm)
Flammability	ASTM E84	Class A
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 Expected Durability section 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		Avoid ammonia based cleaners
Threat Factor (TF)		15 (Threat Factor (TF) is calculated using the American Bird Conservancy's tunnel test. Threat Factor is a way to assign scores that provide a relative measure of birds' ability to see and avoid patterned glass and other materials.)

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).

Document Title	Reference Number
Installation and Maintenance of Avery Dennison Architectural Window Film	Instructional Bulletin 7.00

Expected Durability

Vertical Durability for vertical applications is noted in the chart below. Samples are available from samples.graphics@averydennison.com or through your sales or customer service contact. For information on warranty terms, exclusions and certain limitations that apply see window film warranty for details at (<https://graphics.averydennison.com/en/home/services/warranty/window-film-warranty.html>)

Film	Application Location	Warranted Durability Vertical
SkyWay™ Bird Film	Exterior	3 years

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Optical and Solar Properties **

Glass	Film only	Applied on 1/8" (3mm) clear glass
Visible Light Transmitted %	92	89
Visible Light Reflected (Int) %	8	10
Visible Light Reflected (Ext) %	8	10
Total Solar Energy Rejected %	21	22
UV Block %	98	98
Total Solar Energy Reflected %	8	8
Total Solar Energy Transmitted %	83	78
Total Solar Energy Absorbed %	16	14
Shading Coefficient	.93	0.95
Solar Heat Gain Coefficient (G value)	0.89	0.82
Emissivity (Room side)	0.90	0.90
U-Value Winter	1.06	1.04
Glare Reduction %	1	1
Light to Solar Gain Ratio (LSG)	1.12	1.08
Summer Solar Heat Gain Reduction %	6	4

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

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.

- The 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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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 consent and agreement that the 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 periods are subject in either case to the proper storing and application of the 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 is 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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All sales and contracts for the sale of Products are subject to the 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.

Additionally, exterior and interior window films are subject to additional warranty limitations and conditions, which are available at on the [Avery Dennison Website](#).

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