

Avery Dennison
Graphics Solutions
Product Overview

Asia Pacific - ANZ
June 2023

Design Exterior Films

Sustainable, Energy Efficient,
Makeover Films

Avery Dennison® sustainable design window film for exterior application combine exceptional solar protection for a reduced carbon footprint with a bold appearance. Compatible with almost all glass glazing types our sustainable design window films are a great solution for commercial projects with a focus on achieving a strong visual statement while improving green building profile.

Design window films for exterior application provide convenient, non-disruptive, exterior installation.

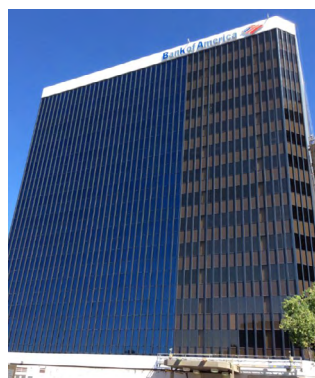
DS Bronze X

DS Bronze 20X exterior design window film casts a warm coppery glow that complements natural surroundings, yet adds sophistication. DS Bronze 20X combines sustainable, heat reduction which reduces a building's carbon footprint with a proportionally higher percentage of natural light than many other reflective films.

DS Bronze 20X is an attractive choice for both residential and commercial projects.

DS Blue XTRM

DS Blue 35XTRM exterior design window film delivers a sophisticated blue tone with minimal visible reflection - transforming coloured glazing to modern glass. With its exceptional durability, up to 15 years, it makes it a great choice for large commercial projects with a long service period. The strong heat rejection performance of this window film enhances the interior cooling capability of even advanced glazing systems which lowers associated cooling costs and carbon emissions, year on year. XTRM films are compatible with nearly all types of glazing.

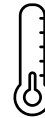


Building makeover in progress - upgrading Bronze glazing (right) with DS Blue 35XTRM (left)

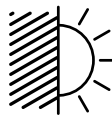
Features and Benefits



UV Block



Lower heat gain



Light control



Aesthetics

- Bold makeover in strong colors for a dramatic exterior building appearance that provides ROI
- Heat rejection for enhanced comfort and reduced cooling costs and carbon footprint
- 99% UV block reduces fading and damage from the sun
- Daytime Privacy



This image has been simulated and is not actual product comparison

Optical and Solar Properties¹

Item Number	DS Bronze 20X		DS Blue 35XTRM ⁵	
	R069B2X		R133SBX	
Pane	Single	Double	Single	Double
Visible Light Transmitted	16%	15%	33%	19%
Visible Light Reflected (Interior)	46%	47%	21%	10%
Visible Light Reflected (Exterior)	39%	40%	15%	14%
Ultra Violet Block	99%	99%	99%	99%
Total Solar Energy Reflected	64%	64%	24%	23%
Total Solar Energy Transmitted	9%	8%	31%	17%
Total Solar Energy Absorbed	27%	28%	45%	60%
Emissivity (Room Side)	0.84	0.84	0.84	0.84
Glare Reduction	82%	81%	63%	79%
Selective InfraRed Reduction (SIRR) ²	96%	96%	69%	69%
InfraRed Energy Rejection (IRER) ³	92%	92%	59%	59%
Shading Coefficient	0.20	0.14	0.51	0.41
Solar Heat Gain Coeff. (G-Value)	0.17	0.12	0.45	0.35
U-Value Winter (IP)	1.04	0.48	1.04	0.48
U-Value Winter (SI)	5.91	2.73	5.91	2.73
Luminous Efficacy	0.83	1.06		
Total Solar Energy Rejected (TSER)	83%	88%	55%	65%

¹ Performance results are calculated on 1/8" (3mm) glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards. Performance calculations should only be used for estimating purposes.




² Selective InfraRed Reduction (SIRR) - The percentage of IR radiation that is not directly transmitted through a glazing system. Calculated as %SIRR = 100% - % Transmission (@780-2500nm).

³ InfraRed Energy Rejection (IRER) - The percentage of Near Infrared Energy Rejection as measured between 780-2500 nm. Calculated as the TSER over 780-2500 nm: %IRER = 100% - 100*SHGC (@ 780-2500 nm).

⁴ Shelf Life: 2 years, stored in original packaging at 22° ±3°C / 50-55% RH

⁵ DS Blue 35XTRM suitable for large commercial projects only.

For more information, contact Avery Dennison customer service or your sales representative, or visit graphicsap.averydennison.com

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