Avery Dennison
Graphics Solutions
Product Overview

Asia Pacific - ANZ
June 2023

Spectrally Selective Exterior Films

See the light,
feel the difference

AVERY DENNISON

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Avery Dennison® spectrally selective sustainable exterior window films effectively reduce carbon footprint while retaining high levels of daylight entering through windows and preserving the natural, transparent appearance of the glass.

Spectrally selective sustainable exterior films reduce UV damage and fading caused by the sun and help maintain interior comfort without compromising neither facade nor view.

SP e-Lite X

SP e-Lite X exterior window films deliver excellent levels of heat rejection that reduce a building's environmental impact and help to maintain cool, comfortable interiors, while preserving the natural appearance of both the glass and the building exterior. The film's neutral color features low visible reflection inside and out, and effectively reducing excessive solar heat. Available in different VLT's, SP e-Lite X exterior window films are compatible with most glass glazing window systems and are particularly popular in historical buildings, museums and residential projects.

This image has been simulated and is not actual product comparison

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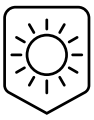
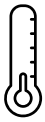
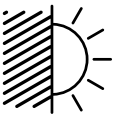
Features and Benefits



UV Block



Lower heat gain



Light control

Aesthetics

- High visible light transmission that is barely discernible on glass - high levels of natural daylight
- Excellent heat rejection for enhanced comfort and reduced cooling costs and associated carbon footprint.
- Low reflectivity preserves views night and day
- 99+% UV block reduces fading and damage from the sun
- Natural appearance maintains building's original façade

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Optical and Solar Properties[1]

	SP e-Lite 45X		SP e-Lite 70X	
Item Number	R105I4X		R105I7X	
Pane	Single	Double	Single	Double
Visible Light Transmitted	47%	43%	67%	61%
Visible Light Reflected (Interior)	12%	19%	17%	23%
Visible Light Reflected (Exterior)	17%	19%	18%	22%
Ultra Violet Block	99.9%	99.9%	99.9%	99.9%
Total Solar Energy Reflected	30%	31%	30%	31%
Total Solar Energy Transmitted	27%	23%	37%	33%
Total Solar Energy Absorbed	43%	46%	33%	36%
Emissivity (Room Side)	0.84	0.84	0.84	0.84
Glare Reduction	48%	47%	25%	24%
Selective InfraRed Reduction (SIRR)[2]	86%	86%	83%	83%
InfraRed Energy Rejection (IRER)[3]	72%	72%	70%	70%
Shading Coefficient	0.45	0.36	0.54	0.45
Solar Heat Gain Coeff. (G-Value)	0.39	0.31	0.47	0.39
U-Value Winter (IP)	1.04	0.48	1.04	0.48
U-Value Winter (SI)	5.92	2.73	5.92	2.73
Luminous Efficacy	1.04	1.19	1.24	1.36
Total Solar Energy Rejected (TSER)	61%	69%	53%	61%

[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 Rejection (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

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

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