

Avery Dennison  
Graphics Solutions  
Product Overview

Asia Pacific - ANZ  
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# Reflective Interior Films

Bold, efficient and sustainable  
energy saving films



## Typical Performance Data

The sustainable, reflective range of interior window films by Avery Dennison® provides a strong visual statement that delivers outstanding energy efficiency, comfort and value. By rejecting excess solar radiation, R Silver™ and R Silver Safety™ interior window films reduce carbon footprint by minimizing heat buildup entering through windows which means cooler, more enjoyable building interiors and reduced cooling costs.

Our Reflective Interior films are popular sustainable building solutions for commercial projects due to their exceptional appearance, effective heat rejection which reduces a buildings environmental impact and their impressive return on investment.

## R Silver i

R Silver i interior window films are designed for attractive appearance and sustainable solar heat rejection. Competitively priced, this range of window films are particularly popular for use in commercial projects. R Silver i interior window films are available in different VLT's.

## R Silver Safety

R Silver Safety reflective interior window film combines the reinforced protection of security laminates with sustainable heat rejection and UV block that reduces cooling output.

R Silver 20 Safety is available in 4 mil thickness and provides a return on investment that pays for itself.

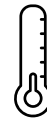


This image has been simulated and is not actual product comparison

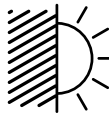
## Features and Benefits



UV Block



Lower heat gain



Light control



Aesthetics

### All R Silver i Window Film Products provide:

- 99% UV block limits fading and damage from the sun
- High level of heat rejection reduces environmental and financial costs associated with building cooling
- Excellent solar heat and glare rejection for enhanced comfort and carbon footprint
- Works immediately - no waiting to enjoy return on investment
- Bold appearance upgrades building exterior and maintains daytime privacy

### R Silver Safety Window Film Products also provide:

- Excellent hazard protection

## Optical and Solar Properties<sup>1</sup>

Item Number	R Silver 20i		R Silver 35i		R Silver 20 4 mil		R Silver 50i	
	R05822S- PS R06922W - WA		R05834S - PS R06934W - WA		R12122T - PS		R24603T - PS	
Pane	Single	Double	Single	Double	Single	Double	Single	Double
Visible Light Transmitted	18%	17%	33%	31%	19%	18%	51%	46%
Visible Light Reflected (Interior)	62%	62%	41%	42%	61%	61%	23%	25%
Visible Light Reflected (Exterior)	61%	61%	42%	44%	60%	60%	24%	29%
Ultra Violet Block	99%	99%	99%	99%	99%	99%	97%	98%
Total Solar Energy Reflected	55%	49%	39%	37%	53%	48%	24%	25%
Total Solar Energy Transmitted	13%	12%	25%	22%	14%	12%	39%	34%
Total Solar Energy Absorbed	32%	38%	36%	41%	33%	40%	37%	41%
Emissivity (Room Side)	0.71	0.71	0.72	0.72	0.74	0.74	0.81	0.81
Glare Reduction	80%	79%	63%	62%	79%	78%	44%	43%
Selective InfraRed Reduction (SIRR) <sup>2</sup>	90%	90%	80%	80%	65%	65%		
InfraRed Energy Rejection (IRER) <sup>3</sup>	79%	79%	68%	68%	49%	49%		
Shading Coefficient	0.25	0.35	0.40	0.49	0.27	0.36	0.58	0.63
Solar Heat Gain Coeff. (G-Value)	0.22	0.30	0.35	0.42	0.23	0.31	0.50	0.55
U-Value Winter (IP)	0.97	0.46	0.98	0.46	0.99	0.47		
U-Value Winter (SI)	5.51	2.62	5.57	2.63	5.62	2.65		
Luminous Efficacy	0.72	0.49	0.85	0.64	0.70	0.49	0.87	0.73
Total Solar Energy Rejected (TSER)	78%	70%	65%	58%	77%	69%	50%	45%

## Mechanical Properties

Thickness	-	-	4 mil	-
Tensile Strength at Break	-	-	28,500 PSI	-
Break Strength	-	-	112 lb/ inch	-
Elongation at Break	-	-	125%	-
Peel Strength	-	-	7 lb/ inch	-




<sup>1</sup> 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.

<sup>2</sup> 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).

<sup>3</sup> 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).

<sup>4</sup> 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](http://graphicsap.averydennison.com)

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