



# Reflective Interior Films

Bold, efficient, high energy saving films



Solar

Avery Dennison's 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**, **R Silver Low E** and **R Silver Safety** interior window films cut heat buildup entering through windows which means cooler, more enjoyable building interiors and reduced costs for cooling.

**Avery Dennison's Reflective interior films are popular for commercial projects thanks to their exceptional appearance, effective heat rejection, and impressive return on investment.**

## R Silver i

**R Silver i** interior window films are designed for attractive appearance and excellent 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 i Low E

Avery Dennison's **R Silver 20i Low E** provides year-round comfort and energy efficiency. During winter, the exceptionally reflective interior layer of **R Silver i Low E** maintains interior heat where it's needed, keeping rooms comfortable. In the summer, the window film's reflective outer layer rejects solar heat from entering into the room, reducing heat buildup and maintaining cool interior temperatures.

## Features and Benefits

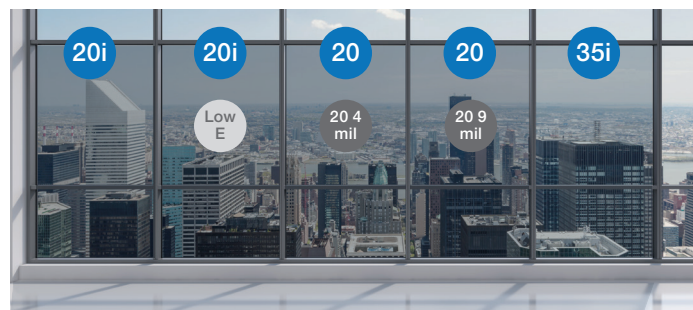
All **R Silver i** Window Film Products provide:

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

## R Silver Safety

These **R Silver Safety** Reflective interior window films combine the reinforced protection of security laminates with superb heat rejection, UV block, and a sophisticated appearance. **R Silver 20 Safety** range of film thicknesses includes 4 and 9 mil to provide the appropriate solution for different security threats.

This image has been simulated and is not actual product comparison



R Silver 20i | R Silver 20i Low E | R Silver 20 4 mil | R Silver 20 9 mil | R Silver 35i

**R Silver i Low-E** Window Film Products also provide:

- > All year round energy efficiency and comfort

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

- > Excellent hazard protection



Graphics Solutions



UV Block



Lower heat gain



Light control



Aesthetics

Optical and Solar Properties**	R Silver 20i		R Silver 35i		R Silver 20i Low E	
Item Number	R06922W / R05822S PS		R06934W / R05834S PS		R06922E PS	
Pane	Single	Double	Single	Double	Single	Double
Visible Light Transmitted	18%	17%	33%	31%	17%	16%
Visible Light Reflected (Interior)	62%	62%	41%	42%	63%	63%
Visible Light Reflected (Exterior)	61%	61%	42%	44%	56%	57%
Ultra Violet Block	99%	99%	99%	99%	99%	99%
Total Solar Energy Reflected	55%	49%	39%	37%	51%	46%
Total Solar Energy Transmitted	13%	12%	25%	22%	12%	11%
Total Solar Energy Absorbed	32%	38%	36%	41%	37%	43%
Emissivity (Room Side)	0.71	0.71	0.72	0.72	0.39	0.39
Glare Reduction	80%	79%	63%	62%	81%	81%
Selective InfraRed Reduction (SIRR)	90%	90%	80%	80%	91%	91%
InfraRed Energy Rejection (IRER)	79%	79%	68%	68%	82%	82%
Shading Coefficient	0.25	0.35	0.40	0.49	0.24	0.34
Solar Heat Gain Coeff. (G-Value)	0.22	0.30	0.35	0.42	0.20	0.29
U-Value Winter (IP)	0.97	0.46	0.98	0.46	0.79	0.41
U-Value Winter (SI)	5.51	2.62	5.57	2.63	4.49	2.31
Luminous Efficacy	0.72	0.49	0.85	0.64	0.71	0.47
Total Solar Energy Rejected (%)	78%	70%	65%	58%	80%	71%

Optical and Solar Properties**	R Silver 20 4 mil		R Silver 20 9 mil	
Item Number	R12122T PS		R24603T PS	
Pane	Single	Double	Single	Double
Visible Light Transmitted	19%	18%	20%	19%
Visible Light Reflected (Interior)	61%	61%	61%	61%
Visible Light Reflected (Exterior)	60%	60%	57%	56%
Ultra Violet Block	99%	99%	99%	99%
Total Solar Energy Reflected	53%	48%	50%	46%
Total Solar Energy Transmitted	14%	12%	15%	13%
Total Solar Energy Absorbed	33%	40%	35%	41%
Emissivity (Room Side)	0.74	0.74	0.91	0.91
Glare Reduction	79%	78%	78%	77%
Selective InfraRed Reduction (SIRR)	65%	65%	92%	92%
InfraRed Energy Rejection (IRER)	49%	49%	80%	80%
Shading Coefficient	0.27	0.36	0.30	0.40
Solar Heat Gain Coeff. (G-Value)	0.23	0.31	0.25	0.34
U-Value Winter (IP)	0.99	0.47	1.08	0.49
U-Value Winter (SI)	5.62	2.65	6.13	2.78
Luminous Efficacy	0.70	0.49	0.67	0.48
Total Solar Energy Rejected (%)	77%	69%	75%	66%

Solar Safety Window Film, R Silver 20 4 mil	
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
Safety Testing	
Impact	EN 12600 Class 2B2

Solar Safety Window Film, R Silver 20 9 mil	
Mechanical Properties	
Thickness	9 mil
Tensile Strength at Break	28,500 PSI
Break Strength	245 lb/ inch
Elongation at Break	125%
Peel Strength	7 lb/ inch

\*\* 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.

### About Avery Dennison

Avery Dennison (NYSE: AVY) is a global materials science and manufacturing company specializing in the design and manufacture of a wide variety of labeling and functional materials. Headquartered in Glendale, California, the company employs approximately 30,000 employees in more than 50 countries. Reported sales in 2017 were \$ 6.6 billion. Learn more at [www.averydennison.com](http://www.averydennison.com)



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