

Solar Safety Interior Films

Attractive, Efficient and Secure



Safety

Avery Dennison's Solar Safety interior films combine the shard protection of safety security films with excellent levels of energy efficiency for immediate energy savings, comfort and attractive appearance that achieve far more than passive glazing protection. Building codes and insurance policies often demand glazing that meets certain safety standards such as impact-resistant glass in schools to break-in or blast protection for retail locations.

Avery Dennison's Solar Safety interior films deliver exceptional solar and security solutions for the needs of industry, businesses and institutions.

R Silver PS

R Silver safety interior window films combine the reinforced protection of security laminates with superb heat rejection, UV block, and sophisticated appearance. A choice of film thicknesses provides a solution for different security threats.

R Silver 20 safety interior window film is available thicknesses of 4 mil and 9 mil.

NT PerLite Ceramic PS

NT PerLite Ceramic solar safety interior films are neutral grey in color and have excellent solar energy rejection that delivers comfort by cutting heat gain and glare. In addition, the reduced heat build up save on cooling costs while the film's safety and security characteristics provide protection from shattered glass. **NT PerLite Ceramic 35** solar safety interior window film is available in thicknesses of 6 and 10 mil for varying hazard protection.

This image has been simulated and is not actual product comparison



R Silver 20
(4 & 9 mil)

NT PerLite Ceramic 35
(6 & 10 mil)

Features and Benefits

Solar Safety Interior Window Film Products provide:

- > Excellent solar heat and glare rejection for enhanced comfort
- > Increased protection from glass shattering by impact, blast, crime or natural disaster
- > High levels of energy efficiency for reduced energy consumption and carbon footprint
- > 99% UV block to reduce fading and sun damage
- > Bold appearance upgrades building exterior and maintains daytime privacy



Graphics
Solutions



Shard
retention



UV Block



Lower
heat gain



Light
control



Aesthetics

Optical and Solar Properties**	R Silver 20 4 Mil		R Silver 20 9 Mil		NT PerLite Ceramic 35 6 mil		NT PerLite Ceramic 35 10 mil	
Item Number	R12122T		R24603T		R170L5T		R270L5T	
Pane	Single	Double	Single	Double	Single	Double	Single	Double
Visible Light Transmitted	19%	18%	20%	19%	40%	36%	40%	37%
Visible Light Reflected (Interior)	61%	61%	61%	61%	16%	18%	17%	18%
Visible Light Reflected (Exterior)	60%	60%	57%	56%	18%	24%	17%	23%
Ultra Violet Block	99%	99%	99%	99%	99%	99%	99%	99%
Total Solar Energy Reflected	53%	48%	50%	46%	19%	22%	18%	21%
Total Solar Energy Transmitted	14%	12%	15%	13%	29%	25%	30%	26%
Total Solar Energy Absorbed	33%	40%	35%	41%	52%	53%	52%	53%
Emissivity (Room Side)	0.74	0.74	0.91	0.91	0.90	0.90	0.91	0.91
Glare Reduction	79%	78%	78%	77%	56%	55%	55%	55%
Selective InfraRed Reduction (SIRR)	65%	65%	92%	92%	86%	86%	33%	33%
InfraRed Energy Rejection (IRER)	49%	49%	80%	80%	69%	69%	26%	26%
Shading Coefficient	0.27	0.36	0.30	0.40	0.52	0.63	0.53	0.64
Solar Heat Gain Coeff. (G-Value)	0.23	0.31	0.25	0.34	0.44	0.54	0.46	0.55
U-Value Winter (IP)	0.99	0.47	1.08	0.49	1.07	0.49	1.08	0.49
U-Value Winter (SI)	5.62	2.65	6.13	2.78	6.08	2.78	6.13	2.78
Luminous Efficacy	0.70	0.49	0.67	0.48	0.77	0.58	0.76	0.58
Total Solar Energy Rejected (%)	77%	69%	75%	66%	56%	46%	54%	45%

Mechanical Properties	R Silver 20 4 Mil	R Silver 20 9 Mil	NT PerLite Ceramic 35 6 mil	NT PerLite Ceramic 35 10 mil
Thickness	4 mil	9 mil	6 mil	10 mil
Tensile Strength at Break	28,500 PSI	28,500 PSI	28,500 PSI	28,500 PSI
Break Strength	112 lb/ inch	245 lb/ inch	145 lb/ inch	270 lb/ inch
Elongation at Break	125%	125%	125%	125%
Peel Strength	7 lb/ inch	7 lb/ inch	7 lb/ inch	7 lb/ inch
Safety Testing				
Impact	EN 12600 Class 2B2		AS/NZS 2208	

** 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



Graphics
Solutions

graphicsap.averydennison.com