

Dual Reflective Interior Films

Combining cooling performance with style



Solar

Avery Dennison's Dual Reflective interior window film lines - **DR OptiTune** and **DR OptiShade** - are engineered with nano technology for long lasting color stability and exceptional solar protection. These Dual Reflective films combine a stylish reflective outer layer that reduces glare and solar heat from entering into the room and thus maintains indoor comfort; with a less reflective inner layer that preserves views to the outside. All Dual Reflective films deliver excellent levels of solar protection.

Dual Reflective interior films are ideal for commercial and residential retrofit glazing projects where increasing comfort, reducing hot spots and conserving energy are most important, all while maintaining a neutral interior view to the outside.



UV Block



Lower heat gain



Light control



Aesthetics

DR OptiShade i

Avery Dennison's **DR OptiShade i** interior window film features a warm, neutral earth tone with low interior reflectance, and effective solar heat protection. It is ideal for residential use, complementing wood floors and furnishings. **DR OptiShade i** is available in different VLT's and is compatible with most glass glazing window systems.

Features and Benefits

- > 99+% UV block reduces fading and damage from the sun
- > Excellent level of heat rejection saves costs associated with building cooling
- > Outstanding glare control for enhanced comfort
- > Warm neutral interior with low reflectivity preserves ambiance and views
- > Bold appearance upgrades building exterior and maintains daytime privacy

Optical and Solar Properties**	DR OptiShade 15i		DR OptiShade 25i		DR OptiShade 35i	
Item Number	R069O1W		R069O2W		R069O3W	
Pane	Single	Double	Single	Double	Single	Double
Visible Light Transmitted	16%	15%	27%	25%	35%	32%
Visible Light Reflected (Interior)	17%	17%	14%	14%	10%	11%
Visible Light Reflected (Exterior)	44%	46%	25%	30%	13%	20%
Ultra Violet Block	99%	99%	99%	99%	99%	99%
Total Solar Energy Reflected	42%	39%	26%	27%	14%	18%
Total Solar Energy Transmitted	13%	11%	23%	20%	34%	29%
Total Solar Energy Absorbed	45%	50%	51%	53%	53%	53%
Emissivity (Room Side)	0.79	0.79	0.84	0.84	0.86	0.86
Glare Reduction	82%	82%	70%	69%	61%	61%
Selective InfraRed Reduction (SIRR)	88%	88%	78%	78%	65%	65%
InfraRed Energy Rejection (IRER)	74%	74%	63%	63%	49%	49%
Shading Coefficient	0.31	0.43	0.44	0.56	0.58	0.67
Solar Heat Gain Coeff. (G-Value)	0.27	0.38	0.39	0.49	0.50	0.59
U-Value Winter (IP)	1.01	0.47	1.04	0.48	1.05	0.48
U-Value Winter (SI)	5.76	2.69	5.91	2.73	5.97	2.75
Luminous Efficacy	0.52	0.34	0.61	0.45	0.60	0.47
Total Solar Energy Rejected (%)	73%	62%	61%	51%	50%	41%

This image has been simulated and is not actual product comparison



DR OptiShade 15i | DR OptiShade 25i | DR OptiShade 35i



Powered by NanoTechnology



Graphics Solutions

** 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