



# XTRM™ Exterior Window Film

A whole new class of durable and sustainable solar control



Solar

Avery Dennison® XTRM sustainable solar control window films are a new generation of long life exterior window films. XTRM has exceptional durability and delivers energy-efficient solar performance, reducing carbon footprint, year after year. XTRM films are backed by a limited warranty of up to 15 years\*.

Developed for commercial projects with a long-term service period, Avery Dennison XTRM window films deliver outstanding levels of heat rejection and UV block that reduce cooling output and environmental impact. XTRM films are compatible with nearly all types of glazing.



## Horizontal & Sloped Glazing



R SkyLite 20 XTRM

## R SkyLite 20 XTRM™

### R SkyLite 20 XTRM Poly™

Our reflective Skylight films are specifically engineered to withstand demanding horizontal and sloped exterior roof applications. Based on a flexible and resilient metallized polymeric film, R SkyLite 20 XTRM has an adhesive system for exterior application on glass, while R SkyLite 20 XTRM Poly was developed for exterior adhesion to rigid plastics such as Polycarbonate and PMMA.



## Vertical Glazing



DR Grey 10 XTRM

## R Silver 20 XTRM™

Our XTRM silver films for vertical glazing application deliver the exceptional heat rejection that improve a building's green profile with the limited lifetime durability you'd expect from an interior film. Tested under extreme lab weathering conditions and demonstrated in the field, R Silver 20 XTRM has proven endurance and performance, year after year.

## DR Grey 10, 20 & 35 XTRM™

DR Grey XTRM dual reflective films, based on metallized polymeric combined with nanotechnology, deliver excellent heat rejection performance. The film's dual reflective structure is a combination of a reflective outer layer for privacy and a neutral inner layer with nanotechnology that maintains views outside.



Graphics Solutions



UV Block



Lower heat gain



Light control



Aesthetics

# Features and Benefits

- > Outstanding solar control reduces the need for air conditioning and carbon footprint
- > Improves the exterior look of buildings
- > Suitable for installation on almost all glazing systems
- > Excellent heat and glare rejection for improved interior comfort and green profile
- > Exceptional longevity up to 15 years warranty\*
- > Exceptional UV protection: 99.9%

Optical and Solar Properties**	R SkyLite 20 XTRM		R SkyLite 20 XTRM Poly	R Silver 20 XTRM		DR Grey 10 XTRM		DR Grey 20 XTRM		DR Grey 35 XTRM	
	R157X15		R157X5P	R12219X		R122W0X		R122W6X		R122W5X	
Item Number	Single	Double	Single	Single	Double	Single	Double	Single	Double	Single	Double
Pane	Single	Double	Single	Single	Double	Single	Double	Single	Double	Single	Double
Visible Light Transmitted	15%	14%	15%	15%	14%	7%	7%	20%	18%	36%	32%
Visible Light Reflected (Interior)	63%	65%	63%	63%	65%	20%	26%	17%	23%	14%	21%
Visible Light Reflected (Exterior)	66%	66%	66%	63%	65%	66%	66%	40%	41%	22%	23%
Ultra Violet Block	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Total Solar Energy Reflected	64%	66%	64%	64%	66%	66%	66%	44%	44%	25%	27%
Total Solar Energy Transmitted	10%	10%	10%	11%	10%	7%	6%	17%	15%	31%	26%
Total Solar Energy Absorbed	26%	24%	26%	25%	24%	27%	28%	39%	41%	44%	47%
Emissivity (Room Side)	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Glare Reduction	84%	83%	84%	84%	83%	92%	92%	78%	78%	61%	61%
Selective InfraRed Reduction (SIRR)***	92%	92%	92%	91%	91%	94%	94%	83%	83%	70%	70%
InfraRed Energy Reduction (IRER)****	85%	85%	85%	84%	84%	87%	87%	73%	73%	58%	58%
Shading Coefficient	0.20	0.16	0.20	0.20	0.16	0.17	0.12	0.33	0.25	0.50	0.40
Solar Heat Gain Coeff. (G-Value)	0.17	0.14	0.17	0.17	0.14	0.15	0.10	0.29	0.22	0.43	0.35
U-Value Winter (IP)	1.03	0.48	1.03	1.04	0.48	1.04	0.48	1.04	0.48	1.04	0.48
U-Value Winter (SI)	5.85	2.71	5.85	5.91	2.73	5.91	2.73	5.91	2.73	5.91	2.73
Luminous Efficacy	0.72	0.89	0.72	0.75	0.88	0.41	0.58	0.60	0.72	0.70	0.80
Total Solar Energy Rejected (%)	83%	86%	83%	83%	86%	85%	90%	71%	78%	57%	65%

Correct installation procedures are vital for maximum longevity. We offer complete, professional training for certification of window film experts qualified to install XTRM exterior films. Products are available exclusively to Avery Dennison XTRM certified installers.

XTRM films require edge sealing

\*See warranty for complete details: [graphicsap.averydennison.com/en/home/graphics-products/architectural-films.html](http://graphicsap.averydennison.com/en/home/graphics-products/architectural-films.html)

\*\*Performance results are calculated on 1/8" 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.

\*\*\*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).

\*\*\*\*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).

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## About Avery Dennison

Avery Dennison Corporation (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. The company's products, which are used in nearly every major industry, include pressure-sensitive materials for labels and graphic applications; tapes and other bonding solutions for industrial, medical and retail applications; tags, labels and embellishments for apparel; and radio-frequency identification (RFID) solutions serving retail apparel and other markets. Headquartered in Glendale, California, the company employs approximately 30,000 employees in more than 50 countries. Reported sales in 2018 were \$7.2 billion. Learn more at [www.averydennison.com](http://www.averydennison.com).



Graphics Solutions

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