

Avery Dennison
Graphics Solutions
Product Overview

Asia Pacific - ANZ
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XTRM™ Exterior Window Film

A whole new class of durable
and sustainable solar control



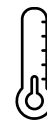
Avery Dennison® XTRM sustainable solar control window films are a new generation of long life exterior window films. XTRM has exceptional durability and delivers energy-efficient solar performance, reducing carbon footprint, year after year. XTRM films are backed by a limited warranty of up to 15 years*.

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.

Features and Benefits



UV Block



Lower heat gain



Light control



Aesthetics

- 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%

Horizontal & Sloped Glazing

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

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.



Optical and Solar Properties¹

| Item Number | 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 | | |
|--|-------------------|--------|------------------------|--------|------------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|--------|
| | R178X15 | | R178X5P | | R12219X | | R122W0X | | R122W6X | | R122W5X | | |
| Pane | Single | Double | Single | Single | Double | 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% | 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 | 0.84 | 0.84 |
| Glare Reduction | 84% | 83% | 84% | 84% | 83% | 92% | 92% | 78% | 78% | 61% | 61% | | |
| Selective InfraRed Reduction (SIRR) ² | 92% | 92% | 92% | 91% | 91% | 94% | 94% | 83% | 83% | 70% | 70% | | |
| InfraRed Energy Rejection (IRER) ³ | 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 (TSER) | 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




¹ 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.

² 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).

³ 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).

⁴ 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

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