

Avery Dennison Graphics Solutions Product Overview

Asia Pacific - ANZ June 2023

Poly exterior window films by Avery Dennison® are engineered to extend the substrate's lifetime, and enhance its performance. A novel adhesive formulation ensures compatibility with plastic substrates and enables clean removal without leaving residue while the exceptional scratch resistant hard coat delivers improved functionality, outdoor resistance to yellowing and a prolonged lifetime.

Avery Dennison Poly solar control and protective films ensure bubble-free\* installation to most polycarbonate, PMMA and other rigid plastics.

## Clear Poly X™



Our surface protection exterior Poly window films protect plastic substrates from graffiti, vandalism and every day wear and tear.

Clear Poly X films provide an ideal solution for plastic glazing applications in busy areas such as transportation shelters, walkways, acoustic barriers, stadiums and train windows. The scratch resistant coating protects rigid plastic glazing systems from abrasions, acid and enables easy cleaning of most sprays, paints and pen marks. The convenient clean film removal feature allows simple film replacement without leaving adhesive residue.

Clear Poly X is available in 4 & 6 mil thicknesses.

#### **Features and Benefits**

- 99% UV block limits fading and damage from the sun
- · Installation on most rigid plastic window systems
- Provides surface graffiti protection
- Easy replacement without leaving adhesive residue
- Provides a cost effective alternative to replacing damaged plastic glazing systems

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## R Silver 20 X Poly™



Installed on polycarbonate or acrylic-glazed surfaces, R Silver 20X Poly improves interior comfort by preventing overheating and significantly reducing glare. The reflective surface of this film dramatically rejects solar heat and reduces the cooling load on air-conditioning systems, saving operating costs and improving a building's environmental profile.

R Silver 20X Poly is the recommended solution for vertical rigid plastic substrate glazing systems in malls, conservatories, atriums, sports facilities and pools.

Clear Poly X is available in 4 & 6 mil thicknesses.

#### **Features and Benefits**

- 99% UV block limits fading and damage from the sun
- Excellent level of heat rejection saves costs and carbon emissions associated with building cooling
- Outstanding solar heat and glare rejection for enhanced comfort
- Works immediately no waiting to benefit from return on investment
- Bold appearance upgrades building exterior and maintains daytime privacy
- Extend the lifetime of plastic substrates
- Compatible with most rigid plastic substrates

# R SkyLite 20 XTRM Poly<sup>™</sup>



Providing outstanding resistance to extreme weather conditions, Avery Dennison R SkyLite 20 XTRM Poly solar control exterior window film is designed for application on flat, curved and sloped roofing systems.

Similar to the solar performance of other exterior, reflective solar control films, R SkyLite 20 XTRM Poly improves interior comfort by preventing overheating and significantly reducing glare. The reflective surface of this film dramatically rejects solar heat and reduces the cooling load on air-conditioning systems, delivering exceptional energy savings and reducing carbon footprint.

R SkyLite 20 XTRM Poly is backed by an up to 10 year, limited warranty\*\*.

### Features and Benefits

- 99% UV block limits fading and damage from the sun
- Excellent level of heat rejection saves costs and carbon emissions associated with building cooling
- Outstanding solar heat and glare rejection for enhanced comfort
- Works immediately no waiting to benefit from return on investment
- Bold appearance upgrades building exterior and maintains daytime privacy
- Extend the lifetime of plastic substrates
- Compatible with most rigid plastic roofing systems

<sup>\*\*</sup>See warranty for full details: graphicsap.averydennison.com/en/home/graphics-products/architectural-films.html

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# Optical and Solar Properties<sup>1</sup>

	Clear 4 mil Poly X	Clear 6 mil Poly X	R Silver 20X Poly	R SkyLite 20 XTRM Poly
Item Number	R1210XP	R1731XP	R0705XP	R178X5P
Pane	Single	Single	Single	Single
Visible Light Transmitted	88%	40%	16%	15%
Visible Light Reflected (Interior)	10%	15%	63%	63%
Visible Light Reflected (Exterior)	10%	17%	64%	66%
Ultra Violet Block	99%	99%	99%	99.9%
Total Solar Energy Reflected	10%	17%	65%	64%
Total Solar Energy Transmitted	80%	29%	12%	10%
Total Solar Energy Absorbed	10%	54%	23%	26%
Emissivity (Room Side)	-	0.82	0.84	0.84
Glare Reduction	2%	56%	82%	84%
Selective InfraRed Reduction (SIRR) <sup>2</sup>	-	78%	90%	92%
InfraRed Energy Rejection (IRER) <sup>3</sup>	-	60%	84%	85%
Shading Coefficient	0.96	0.52	0.22	0.20
Solar Heat Gain Coeff. (G-Value)	0.83	0.45	0.19	0.17
U-Value Winter (IP)	1.04	1.03	1.04	1.03
U-Value Winter (SI)	5.91	5.85	5.91	5.85
Luminous Efficacy	-	0.75	0.75	0.72
Total Solar Energy Rejected (TSER)	17%	55%	81%	83%

# **Mechanical Properties**

Thickness	4 mil	6 mil
Tensile Strength at Break	28,500 PSI	28,000 PSI
Break Strength	112 lb/ inch	125 lb/inch
Elongation at Break	125%	150 %
Peel Strength	1-2 lb/ inch	1-2 lb/inch

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.

For more information, contact Avery Dennison customer service or your sales representative, or visit graphicsap.averydennison.com

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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

 $<sup>^4</sup>$  Shelf Life: 2 years, stored in original packaging at 22°  $\pm 3^{\circ}\text{C}$  / 50-55% RH