



Poly Exterior Window Films

Sustainable solar control & surface protection films for rigid plastic substrates

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

*See the Avery Dennison Poly Film Installation and Maintenance Guide for complete details.



Graphics
Solutions



UV Block



Anti-graffiti

R Silver 20 X Poly™



Features and Benefits



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.

- > 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™



Features and Benefits



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**.

- > 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



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



Optical and Solar Properties***	Clear 4 mil Poly X	Clear 6 mil Poly X	R Silver 20X Poly	R SkyLite 20 XTRM Poly
Item Number	R1210XP	R1731XP	R0705XP	R157X5P
Pane	Single	Single	Single	Single
Visible Light Transmitted	88%	88%	16%	15%
Visible Light Reflected (Interior)	10%	10%	63%	63%
Visible Light Reflected (Exterior)	10%	10%	64%	66%
Ultra Violet Block	99%	99%	99%	99.9%
Total Solar Energy Reflected	10%	9%	65%	64%
Total Solar Energy Transmitted	80%	80%	12%	10%
Total Solar Energy Absorbed	10%	11%	23%	26%
Emissivity (Room Side)	-	-	0.84	0.84
Glare Reduction	2%	2%	82%	84%
Selective InfraRed Reduction (SIRR)****	-	-	90%	92%
InfraRed Energy Reduction (IRER)*****	-	-	84%	85%
Shading Coefficient	0.96	0.95	0.22	0.20
Solar Heat Gain Coeff. (G-Value)	0.83	0.82	0.19	0.17
U-Value Winter (IP)	1.04	1.07	1.04	1.03
U-Value Winter (SI)	5.91	6.05	5.91	5.85
Luminous Efficacy	-	-	0.75	0.72
Total Solar Energy Rejected (%)	17%	18%	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		

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

***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.



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