



Surface Protection Window Films

Preservation of glass and rigid plastic substrate glazing systems



Safety

Surface protection window films by Avery Dennison® for glass or rigid plastic substrates are engineered to prolong the glazing system's service life. The wipe-clean, protective sacrificial film, has a novel adhesion formulation that enables clean and easy removal without leaving residue. Our films protect vulnerable surfaces from spray, paint, pen, scratches and etchings.

Providing a cost effective solution for protecting glazing systems in public places from vandalism and damage.

Clear Poly X™



Clear Poly X exterior surface protection window films **protect rigid plastic glazing systems** from graffiti, vandalism and everyday wear and tear. **Clear Poly X** films provide an ideal surface protection solution for plastic glazing systems in busy areas such as transportation shelters, walkways, acoustic barriers, stadiums and train windows. The scratch resistant coating gives resistance to scratches, protects surfaces from acid and enables easy cleaning of most sprays, paints and pen marks. The convenient clean 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 compatible to most plastic window systems*
- > Film hard coat provides wipe-clean surface protection from graffiti
- > Fast clean and easy replacement without leaving adhesive residue
- > Provides a cost effective alternative to replacing damaged plastic glazing systems

* See The Avery Dennison Poly Films Installation and Maintenance Guide for complete details.



Graphics
Solutions



UV Block



Anti-graffiti



AG Clear ix surface protection window films by Avery Dennison can be applied universally on the interior or exterior side of most **glass** window systems for anti-graffiti protection. **AG Clear ix** provides a tough, invisible layer between vandals and glass, helping to keep vulnerable surfaces clear, clean and scratch free. The convenient clean removal feature allows simple film replacement without leaving adhesive residue. **AG Clear ix** is available in 4 & 6 mil thicknesses.



Features and Benefits

- > Up to 97% UV block limits fading and damage from the sun
- > Film hard coat provides wipe-clean surface protection from graffiti
- > Fast, clean and easy replacement without leaving adhesive residue
- > Provides a cost effective alternative to replacing damaged glass glazing systems
- > Compatible to most glass glazing systems

Optical and Solar Properties**	Clear 4 mil Poly X™	Clear 6 mil Poly X™	AG Clear 4 mil ix™	AG Clear 6 mil ix™
Item Number	R1210XP	R1731XP	R123G3X	R173G3X
Pane	Single	Single	Single	Single
Visible Light Transmitted	88%	88%	90%	90%
Visible Light Reflected (Interior)	10%	10%	11%	12%
Visible Light Reflected (Exterior)	10%	10%	11%	12%
Ultra Violet Block	99%	99%	92%	97%
Total Solar Energy Reflected	10%	9%	10%	11%
Total Solar Energy Transmitted	80%	80%	82%	82%
Total Solar Energy Absorbed	10%	11%	8%	7%
Glare Reduction	2%	2%	0%	2%
Shading Coefficient	0.96	0.95	0.97	0.97
Solar Heat Gain Coeff. (G-Value)	0.83	0.82	0.84	0.84
U-Value Winter (IP)	1.04	1.07	1.04	1.07
U-Value Winter (SI)	5.91	6.05	5.91	6.0
Total Solar Energy Rejected (%)	17%	18%	16%	16%
Mechanical Properties				
Thickness	4 mil	6 mil	4 mil	6 mil
Tensile Strength at Break	28,500 PSI	28,000 PSI	28,500 PSI	28,500 PSI
Break Strength	112 lb/ inch	125 lb/ inch	112 lb/ inch	125 lb/inch
Elongation at Break	125%	150%	125%	125%
Peel Strength	1-2 lb/ inch	1-2 lb/ inch	2-3 lb/ inch	2-3 lb/inch

**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.

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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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