

Avery Dennison
Graphics Solutions
Product Overview

Asia Pacific - ANZ
June 2023

Safety & Security Exterior Films

Hazard Surface Protection

We have over three decades of experience in developing and manufacturing multi-laminate safety and security window films, designed to protect people and property against a wide variety of threats.

All of our exterior window films provide excellent UV block, protecting people and property from damaging ultraviolet rays.

SF Clear X

SF Clear X safety and security exterior window films feature exceptional clarity, low reflectance and high levels of UV protection.

Film thicknesses 4 and 7 mil are available to provide appropriate protection solutions.

Features and Benefits



Shard retention



UV Block

- Great solution for spontaneous glass breakage of tempered glass for application on balcony glass
- Superb optical clarity for no compromise vision
- Up to 99% UV block to reduce fading and sun damage

Optical and Solar Properties¹

	SF Clear 4 mil X™	SF Clear 7 mil X™
Item Number	R12100X	R19600X
Pane	Single	Single
Visible Light Transmitted	88%	88%
Visible Light Reflected (Interior)	10%	11%
Visible Light Reflected (Exterior)	10%	11%
Ultra Violet Block	99%	99%
Total Solar Energy Reflected	10%	9%
Total Solar Energy Transmitted	80%	80%
Total Solar Energy Absorbed	10%	11%
Glare Reduction	2%	2%
Shading Coefficient	0.96	0.95
Solar Heat Gain Coeff. (G-Value)	0.83	0.83
U-Value Winter (IP)	1.04	1.04
U-Value Winter (SI)	5.91	5.91
Total Solar Energy Rejected (TSER)	17%	17%
Thickness	4 mil	7 mil
Tensile Strength at Break	28,500 PSI	26,000 PSI
Break Strength	112 lb/ inch	180 lb/ inch
Elongation at Break	125%	140%
Peel Strength	7 lb/ inch	7 lb/ inch

Mechanical Properties




Safety Testing

Impact - AS/NZS 2208	✓	
Impact - EN 12600 2B2	✓	
Impact - EN 12600 1B1		✓

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 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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