Avery Dennison Graphics Solutions Product Overview

Australia & New Zealand January 2024

Safety & Security Interior Films

Optically clear glazing protection



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	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 flying glass shards from a wide variety of hazards and threats.				
	Avery Dennison [®] safety and security films are suitable for building codes and insurance policies that often demand glazing that meets certain safety standards such as impact-resistant glass in schools, break-ins or blast protection for retail locations.				
	Our safety and security interior films have outstanding transparency – the result of top grade polyester, our proprietary transparent adhesive, and tight adherence to demanding ISO 9001 quality-assurance standards.				
	All of our exterior window films provide excellent UV block, protecting people and property from damaging ultraviolet rays.				
SF Clear i	SF Clear safety and security interior window films feature exceptional clarity, I reflectance and high levels of UV protection.				
	A full range of film thicknesses include 4, 7, 12 and 15 mil to provide the appropriate protection solution.				
SF Matte i	SF Matte i safety and security decorative interior window film is white matte in appearance and is available in thicknesses 5 and 12 mil to provide privacy and personal safety in retail, bathroom and office applications. SF Matte i film combine anti-fragmentation security with an attractive sandblasted effect, delivering a safe and cost-effective alternative to privacy glass or partitions.				
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Features and Benefits

₹∥	Shard retention
	-



UV Block





- Increased protection from glass shattered by impact, blast, crime or natural disaster
- Up to 99% UV block to reduce fading and sun damage

SF Clear i features:

- Superb optical clarity for no compromise vision
- SF Matte i features:
- Privacy with aesthetic appeal sandblasted white effect

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Optical and Solar Properties¹

	SF Clear 4 mil i	SF Clear 7 mil i	SF Clear 8 mil i	SF Clear 12 mil i	SF Clear 15 mil i	SF Clear 4 mil Mod	SF Clear 7 mil Mod	SF Clear 12 mil Mod	SF Matte 5 mil i	SF Matte 12 mil i
Item Number	R12306T	R19801T	R22301T	R32303T	R39803T	R12306C	R19801C	R32303C	R14811	R32311C
Pane	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single
Visible Light Transmitted	89%	88%	88%	87%	87%	89%	88%	87%	58%	55%
Visible Light Reflected (Interior)	10%	11%	11%	11%	11%	10%	11%	11%	%	%
Visible Light Reflected (Exterior)	10%	11%	11%	11%	11%	10%	11%	11%	25%	28%
Ultra Violet Block	97%	99%	99%	99%	99%	97%	99%	99%	98%	99%
Total Solar Energy Reflected	9%	9%	9%	10%	11%	9%	9%	10%	20%	23%
Total Solar Energy Transmitted	81%	80%	80%	78%	77%	81%	80%	78%	55%	51%
Total Solar Energy Absorbed	10%	11%	11%	12%	12%	10%	11%	12%	25%	26%
Glare Reduction	1%	2%	2%	3%	3%	1%	2%	3%	36%	38%
Selective InfraRed Reduction (SIRR) ²	-	-	-	-	-	-	-	-	-	46%
InfraRed Energy Rejection (IRER) ³	-	-	-	-	-	-	-	-	-	37%
Shading Coefficient	0.96	0.95	0.95	0.94	0.94	0.96	0.95	0.94	0.72	0.69
Solar Heat Gain Coeff. (G-Value)	0.84	0.83	0.83	0.82	0.82	0.84	0.83	0.82	0.62	0.60
U-Value Winter (IP)	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
U-Value Winter (SI)	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.05	6.08
Total Solar Energy Rejected (TSER)	16%	17%	17%	18%	18%	16%	17%	18%	38%	40%

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.

³ 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).

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Mechanical Properties

		SF Clear 4 mil i	SF Clear 7 mil i	SF Clear 8 mil i	SF Clear 12 mil i	SF Clear 15 mil i	SF Clear 4 mil Mod	SF Clear 7 mil Mod	SF Clear 12 mil Mod	SF Matte 5 mil i	SF Matte 12 mil i
Thickness		4	7	8	12	15	4	7	12	5	12
Tensile Strength at Break		28,500	26,000	28,500	28,500	28,500	28,500	26,000	28,500	25,000	28,500
Break Strength		112	180	224	336	420	112	180	336	140	336
Elongation at Break		125	140	125	125	140	125	140	125	140	125
Peel St	Peel Strength		7	7	7	8	7	7	7	5-7	7
Safety	Testing										
Fire	BS 476 Fire Propagation		~					~			
	ASTM D1929 Ignition	~	~				~	~			
	ASTM E84 Surface Burn	~					~				
Impact	AS/NZS 2208	~	~	~			~	~		~	
	ANSI Z97.1 18" pendulum fall	~					~				
	ANSI Z97.1 48" pendulum fall		~	~				~			
	CPSC 1201 Cat 1 18" pendulum fall	~					~				
	CPSC 1201 Title 16 48" pendulum fall	~	~	~			~	~			
	BS 6206 B	~					~				
	EN 12600 2B2	~	~	~			~	~		~	
	EN 12600 1B1		~	~				~			
	EN 356 P4A				~	~			~		
	DIN 52290 Part 4, A1				~				~		
Bomb Blast	Siach Gefen IDF Testing (x2 + No Bar)				~				~		
	Bomb Blast GSA Level D (10.2 psi, 90.6 psi/ msec)				~				~		
Shock Tube	GSA: 3A, ISO: C, ASTM: Minimal Hazard			~							
Test⁴	GSA: 2C, ISO: B, ASTM: No Hazard				~						

⁴ Complies with Shock Tube Test Standards: GSA+TS01-2003, ISO 16934 & ASTM F 1642-12

 5 $\,$ 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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