



# Safety & Security Interior Films




Optically clear glazing 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 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.

SF Clear i 	SF Clear mod 	SF Matte i 
<p><b>SF Clear</b> safety and security interior window films feature exceptional clarity, low 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.</p>	<p>Add safety and security protection to any of our sustainable and solar window film by installing it in combination with safety modular film <b>SF Clear Mod</b>. <b>SF Clear Mod</b> safety and security interior modular window films are available in thicknesses of 4, 7, and 12 mil for varying hazard protection.</p>	<p><b>SF Matte i</b> 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. <b>SF Matte i</b> film combine anti-fragmentation security with an attractive sandblasted effect, delivering a safe and cost-effective alternative to privacy glass or partitions.</p>
<h2>Features and Benefits</h2>		
<ul style="list-style-type: none"> <li>&gt; Increased protection from glass shattered by impact, blast, crime or natural disaster</li> <li>&gt; Superb optical clarity for no compromise vision</li> <li>&gt; Up to 99% UV block to reduce fading and sun damage</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Increased protection from glass shattered by impact, blast, crime or natural disaster</li> <li>&gt; Superb optical clarity for no compromise vision</li> <li>&gt; Up to 99% UV block to reduce fading and sun damage</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Increased protection from glass shattered by impact, blast, crime or natural disaster</li> <li>&gt; Privacy with aesthetic appeal - sandblasted white effect</li> <li>&gt; Up to 99% UV block to reduce fading and sun damage</li> </ul>



Graphics Solutions



Optical and Solar 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™
Item Number	R12306T	R19801T	R22301T	R32303T	R39803T	R12306C	R19801C	R32303C	R22301T	R32311C
<b>Pane</b>	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)**	-	-	-	-	-	-	-	-	-	46%
InfraRed Energy Rejection (IRER)***	-	-	-	-	-	-	-	-	-	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 (%)	16%	17%	17%	18%	18%	16%	17%	18%	38%	40%
<b>Mechanical Properties</b>										
Thickness (mil)	4	7	8	12	15	4	7	12	5	12
Tensile Strength at Break (PSI)	28,500	26,000	28,500	28,500	28,500	28,500	26,000	28,500	25,000	28,500
Break Strength (lb/inch)	112	180	224	336	420	112	180	336	140	336
Elongation at Break (%)	125	140	125	125	140	125	140	125	140	125
Peel Strength (lb/inch)	7	7	7	7	8	7	7	7	5-7	7
<b>Safety Testing</b>										
<b>Fire</b>										
BS 476 Fire Propagation		√					√			
ASTM D1929 Ignition	√	√				√	√			
ASTM E84 Surface Burn	√					√				
<b>Impact</b>										
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				√				√		
<b>Bomb Blast</b>										
Siach Gefen IDF Testing (x2 + No Bar)				√				√		
Bomb Blast GSA Level D (10.2 psi, 90.6 psi/msec)				√				√		
<b>Shock Tube Test****</b>										
GSA: 3A, ISO: C, ASTM: Minimal Hazard			√							
GSA: 2C, ISO: B, ASTM: No Hazard				√						

\*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.

\*\*SIRR - The percentage of IR radiation that is not directly transmitted through a glazing system. Calculated as %SIRR = 100% - % Transmission (@780-2500nm).

\*\*\*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).

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

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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](http://www.averydennison.com).

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