



**xSun**®

W I N D O W F I L M S

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*High Quality - Cool Performance*

**SAFETY & SECURITY FILMS**

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## SAFETY & SECURITY FILMS

2 MIL	CLEAR		1 PLY	PS	SRC
4 MIL	CLEAR		1 PLY	PS	SRC
7 MIL	CLEAR		1 PLY	PS	SRC
11 MIL	CLEAR		2 PLY	PS	SRC
15 MIL	CLEAR		2 PLY	PS	SRC
4 MIL	CLEAR	EXTERIOR	1 PLY	PS	SRC
4 MIL	CHARCOAL	15	2 PLY	PS	SRC
4 MIL	CHARCOAL	35	2 PLY	PS	SRC
4 MIL	CHARCOAL	50	2 PLY	PS	SRC
4 MIL	CHARCOAL	70	2 PLY	PS	SRC
8 MIL	CHARCOAL	20	2 PLY	PS	SRC
8 MIL	CHARCOAL	35	2 PLY	PS	SRC
8 MIL	CHARCOAL	50	2 PLY	PS	SRC
4 MIL	SILVER	20	2 PLY	PS	SRC
4 MIL	SILVER	35	2 PLY	PS	SRC
8 MIL	SILVER	20	2 PLY	PS	SRC
4 MIL	NEUTRAL	20	2 PLY	PS	SRC
4 MIL	NEUTRAL	35	2 PLY	PS	SRC
4 MIL	NEUTRAL	50	2 PLY	PS	SRC
4 MIL	NEUTRAL	65	2 PLY	PS	SRC
8 MIL	NEUTRAL	20	3 PLY	PS	SRC
8 MIL	NEUTRAL	35	3 PLY	PS	SRC
8 MIL	NEUTRAL	50	3 PLY	PS	SRC

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**Safety & Security Film**  
**2 MIL CLEAR**  
**PS SRC**

Visible Light Transmittance	89%
Visible Light Reflectance	10%
Solar Transmittance	83%
Solar Reflectance	9%
Solar Absorbance	8%
U-Value	1.03
Shading Coefficient	0.97
Ultraviolet Reject	99%
Total Solar Energy Rejected	19%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	28000
Break Strength (ib/sq. Inch)	56
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	45

*All Values as applied to 1/4 inch clear plate glass. Tests are representative of actual production and may vary from lot to lot.*

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**Safety & Security Film**  
**4 MIL CLEAR**  
**PS SRC**

Visible Light Transmittance	87%
Visible Light Reflectance	10%
Solar Transmittance	81%
Solar Reflectance	9%
Solar Absorbance	10%
U-Value	1.03
Shading Coefficient	0.97
Ultraviolet Reject	99%
Total Solar Energy Rejected	20%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	33000
Break Strength (ib/sq. Inch)	132
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	79

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**Safety & Security Film**  
**7 MIL CLEAR**  
**PS SRC**

Visible Light Transmittance	85%
Visible Light Reflectance	10%
Solar Transmittance	81%
Solar Reflectance	9%
Solar Absorbance	10%
U-Value	1.03
Shading Coefficient	0.96
Ultraviolet Reject	99%
Total Solar Energy Rejected	20%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	27500
Break Strength (ib/sq. Inch)	193
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	145

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**Safety & Security Film**  
**11 MIL CLEAR**  
**PS SRC**

Visible Light Transmittance	78%
Visible Light Reflectance	11%
Solar Transmittance	78%
Solar Reflectance	9%
Solar Absorbance	13%
U-Value	1.03
Shading Coefficient	0.93
Ultraviolet Reject	99%
Total Solar Energy Rejected	19%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	27318
Break Strength (ib/sq. Inch)	301
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	187

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**Safety & Security Film**  
**15 MIL CLEAR**  
**PS SRC**

Visible Light Transmittance	78%
Visible Light Reflectance	11%
Solar Transmittance	76%
Solar Reflectance	10%
Solar Absorbance	14%
U-Value	1.03
Shading Coefficient	0.92
Ultraviolet Reject	99%
Total Solar Energy Rejected	20%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	23345
Break Strength (ib/sq. Inch)	373
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	223

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**Safety & Security Film**  
**4 MIL CLEAR EXTERIOR**  
**PS SRC**

Visible Light Transmittance	87%
Visible Light Reflectance	10%
Solar Transmittance	81%
Solar Reflectance	9%
Solar Absorbance	10%
U-Value	1.03
Shading Coefficient	0.97
Ultraviolet Reject	99%
Total Solar Energy Rejected	20%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	33000
Break Strength (ib/sq. Inch)	132
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	79

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**Safety & Security Film**  
**4 MIL CHARCOAL 15**  
**PS SRC**

Visible Light Transmittance	17%	
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance	44%	
Solar Reflectance	7%	
Solar Absorbance	49%	
U-Value	1.03	
Shading Coefficient	0.66	
Glare Reduction	76%	
Ultraviolet Reject	99%	
Total Solar Energy Rejected	43%	

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25714
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL CHARCOAL 35**  
**PS SRC**

Visible Light Transmittance		38%
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance		56%
Solar Reflectance		7%
Solar Absorbance		37%
U-Value		1.03
Shading Coefficient		0.76
Glare Reduction		55%
Ultraviolet Reject		99%
Total Solar Energy Rejected		34%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25714
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL CHARCOAL 35**  
**PS SRC**

Visible Light Transmittance		38%
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance		56%
Solar Reflectance		7%
Solar Absorbance		37%
U-Value		1.03
Shading Coefficient		0.76
Glare Reduction		55%
Ultraviolet Reject		99%
Total Solar Energy Rejected		34%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25714
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL CHARCOAL 50**  
**PS SRC**

Visible Light Transmittance		52%
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance		62%
Solar Reflectance		7%
Solar Absorbance		31%
U-Value		1.03
Shading Coefficient		0.81
Glare Reduction		41%
Ultraviolet Reject		99%
Total Solar Energy Rejected		29%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25714
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**8 MIL CHARCOAL 20**  
**PS SRC**

Visible Light Transmittance		17%
Visible Light Reflectance	Interior 4%	Exterior 5%
Solar Transmittance		44%
Solar Reflectance		7%
Solar Absorbance		49%
U-Value		1.03
Shading Coefficient		0.66
Glare Reduction		80%
Ultraviolet Reject		99%
Total Solar Energy Rejected		43%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	146

*All Values as applied to 1/4 inch clear plate glass. Tests are representative of actual production and may vary from lot to lot.*

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**Safety & Security Film**

**8 MIL CHARCOAL 35**

**PS SRC**

Visible Light Transmittance		38%
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance		56%
Solar Reflectance		7%
Solar Absorbance		37%
U-Value		1.03
Shading Coefficient		0.76
Glare Reduction		56%
Ultraviolet Reject		99%
Total Solar Energy Rejected		34%

#### **Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	146

*All Values as applied to ¼ inch clear plate glass. Tests are representative of actual production and may vary from lot to lot.*

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**Safety & Security Film**  
**8 MIL CHARCOAL 50**  
**PS SRC**

Visible Light Transmittance	52%	
Visible Light Reflectance	Interior 5%	Exterior 6%
Solar Transmittance	62%	
Solar Reflectance	7%	
Solar Absorbance	31%	
U-Value	1.03	
Shading Coefficient	0.81	
Glare Reduction	41%	
Ultraviolet Reject	99%	
Total Solar Energy Rejected	29%	

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	146

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**Safety & Security Film**  
**4 MIL SILVER 20**  
**PS SRC**

Visible Light Transmittance		18%
Visible Light Reflectance	Interior 58%	Exterior 62%
Solar Transmittance		15%
Solar Reflectance		54%
Solar Absorbance		32%
U-Value		0.94
Shading Coefficient		0.24
Glare Reduction		84%
Ultraviolet Reject		99%
Total Solar Energy Rejected		79%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	33600
Break Strength (ib/sq. Inch)	134
% Elongation	>100
Peel Strength (g/inch)	>2750
Puncture Strength (ib)	103

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**Safety & Security Film**  
**4 MIL SILVER 35**  
**PS SRC**

Visible Light Transmittance	28%	
Visible Light Reflectance	Interior 48%	Exterior 51%
Solar Transmittance	22%	
Solar Reflectance	43%	
Solar Absorbance	35%	
U-Value	0.96	
Shading Coefficient	0.36	
Glare Reduction	65%	
Ultraviolet Reject	99%	
Total Solar Energy Rejected	68%	

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25717
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**8 MIL SILVER 20**  
**PS SRC**

Visible Light Transmittance		15%
Visible Light Reflectance	Interior 58%	Exterior 60%
Solar Transmittance		20%
Solar Reflectance		55%
Solar Absorbance		33%
U-Value		0.94
Shading Coefficient		0.24
Glare Reduction		84%
Ultraviolet Reject		99%
Total Solar Energy Rejected		79%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	30400
Break Strength (ib/sq. Inch)	265
% Elongation	>100
Peel Strength (g/inch)	>2750
Puncture Strength (ib)	173

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**Safety & Security Film**  
**4 MIL NEUTRAL 20**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance	24%
Visible Light Reflectance	Interior 29% Exterior 30%
Solar Transmittance	22%
Solar Reflectance	26%
Solar Absorbance	52%
U-Value	1.03
Shading Coefficient	0.43
Glare Reduction	72%
Ultraviolet Reject	99%
Total Solar Energy Rejected	63%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25717
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL NEUTRAL 35**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance	41%
Visible Light Reflectance	Interior 25% Exterior 18%
Solar Transmittance	36%
Solar Reflectance	16%
Solar Absorbance	48%
U-Value	1.03
Shading Coefficient	0.55
Glare Reduction	53%
Ultraviolet Reject	99%
Total Solar Energy Rejected	53%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25717
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL NEUTRAL 50**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance		50%
Visible Light Reflectance	Interior 13%	Exterior 15%
Solar Transmittance		44%
Solar Reflectance		13%
Solar Absorbance		43%
U-Value		1.03
Shading Coefficient		0.64
Glare Reduction		38%
Ultraviolet Reject		99%
Total Solar Energy Rejected		45%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25717
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**4 MIL NEUTRAL 65**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance	65%	
Visible Light Reflectance	Interior 11%	Exterior 14%
Solar Transmittance	54%	
Solar Reflectance	10%	
Solar Absorbance	36%	
U-Value	1.03	
Shading Coefficient	0.70	
Glare Reduction	26%	
Ultraviolet Reject	99%	
Total Solar Energy Rejected	40%	

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	25717
Break Strength (ib/sq. Inch)	101
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	78

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**Safety & Security Film**  
**8 MIL NEUTRAL 20**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance	24%
Visible Light Reflectance	Interior 20% Exterior 33%
Solar Transmittance	22%
Solar Reflectance	32%
Solar Absorbance	46%
U-Value	1.03
Shading Coefficient	0.36
Glare Reduction	72%
Ultraviolet Reject	99%
Total Solar Energy Rejected	67%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	155

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**Safety & Security Film**  
**8 MIL NEUTRAL 35**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance			37%
Visible Light Reflectance	Interior 17%	Exterior	20%
Solar Transmittance			27%
Solar Reflectance			32%
Solar Absorbance			41%
U-Value			1.03
Shading Coefficient			0.42
Glare Reduction			58%
Ultraviolet Reject			99%
Total Solar Energy Rejected			61%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	155

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**Safety & Security Film**  
**8 MIL NEUTRAL 50**  
**PS SRC**  
**Sputtered Metal Film**

Visible Light Transmittance	48%
Visible Light Reflectance	Interior 12% Exterior 16%
Solar Transmittance	33%
Solar Reflectance	22%
Solar Absorbance	45%
U-Value	1.05
Shading Coefficient	0.54
Glare Reduction	45%
Ultraviolet Reject	99%
Total Solar Energy Rejected	50%

**Physical Properties**

Tensile Strength (ib/Sq. Inch)	29505
Break Strength (ib/sq. Inch)	235
% Elongation	>100
Peel Strength (g/inch)	>2720
Puncture Strength (ib)	155

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