Avery Dennison® Architectural Window Films

Avery Dennison Architectural Window Films can improve the performance and transform the appearance of commercial, industrial and residential buildings.

Major glazing system enhancements are available for both interior and exterior use, including solar protection and window safety applications.

Key benefits

**Solar Window Films**
- UV Block
  - Protects skin
  - Inhibits fading
- Lower heat gain
  - Improves comfort
  - Saves energy
- Aesthetics
  - Upgrades appearance
  - Ensures daytime privacy
- Light control
  - Improves comfort
  - Reduces glare

**Safety Window Films**
- Shard retention
  - Enhances personal safety
  - Offers security protection
- Anti-graffiti
  - Protects surface
  - Clean and easy removal
- Aesthetics
  - Upgrades appearance
  - Ensures daytime privacy

The high performance Solar Window Films filter damaging solar radiation and reduce interior heat build-up - providing multiple benefits to occupants such as enhanced comfort and reduced glare, no fading of furniture and lower energy cost.

With a comprehensive range of finishes available, the level of privacy can be selected and the appearance of the building transformed.

The Safety Window Film range is designed to improve both safety and security, and offer a range of protection levels to glass breakages caused by accident, malicious intent or extreme weather conditions. Additional surface protection solutions are also available, with Anti-Graffiti properties.

Find a recommended product for a specific glazing systems using our Film to Glass (FTG) application charts available on our website. We provide you with full sales and technical support, to ensure the best possible application results.

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The Avery Dennison® R Silver i Film Series is designed for interior applications in buildings such as offices. These metalized films provide maximum energy efficiency by rejecting excess solar radiation, reducing heat build-up from windows. A silver (mirror like) finish is available in three different light transmission levels.

Fire Certificate

DIN EN 13501-1

√ (B-s1, d0)

The Avery Dennison® R Silver X Film Series is designed for exterior installation. These films are especially energy efficient when used on advanced glazing systems, rejecting the solar energy before it is transmitted through a window. The Poly version is based on a unique adhesive system designed for rigid plastic substrates. Typical applications include commercial buildings. A silver (mirror like) finish is available in three different light transmission levels.

Fire Certificate

DIN EN 13501-1

√ (B-s1, d0)

**Key benefits**

**Reflective Interior**

**Reflective Exterior**

- **UV Block**
  - Protects skin
  - Inhibits fading
- **Lower heat gain**
  - Improves comfort
  - Saves energy
- **Light control**
  - Improves comfort
  - Reduces glare
- **Aesthetics**
  - Upgrades appearance
  - Ensures daytime privacy

**Key benefits**

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**R Silver 20 i**

- 99%
- 99%
- 18%
- 17%
- 15%
- 12%
- 55%
- 49%

**R Silver 35 i**

- 99%
- 99%
- 33%
- 31%
- 25%
- 22%
- 39%
- 37%

**R Silver 50 i**

- 97%
- 98%
- 51%
- 50%
- 38%
- 36%
- 24%
- 25%

**R Silver 20 X**

- 99%
- 99%
- 17%
- 16%
- 12%
- 11%
- 65%

**R Silver 35 X**

- 99%
- 99%
- 33%
- 31%
- 25%
- 22%
- 45%
- 46%

**R Silver 50 X**

- 99%
- 99%
- 48%
- 44%
- 37%
- 31%
- 30%
- 32%

**R Silver 20 X Poly**

- 99%
- 16%
- 10%
- 65%
The Avery Dennison® DR Grey i Film Series is designed for interior applications. A reflective outer layer ensures high solar energy rejection and privacy, while a neutral inner layer based on nanotechnology preserves views to the outside, maintaining indoor ambience.

Typical applications include hotels, banks and residential buildings. These films are available with a neutral grey interior finish and a reflective silver exterior finish, in two different light transmission levels.

Fire Certificate
DIN EN 13501-1
√ (B-s1, d0)

DR Grey 05 i | 99 | 99 | 7 | 1 | 6 | 53 | 48 |
DR Grey 15 i | 99 | 99 | 12 | 1 | 9 | 51 | 46 |

Key benefits
- UV Block
  - Protects skin
  - Inhibits fading
- Lower heat gain
  - Improves comfort
  - Saves energy
- Light control
  - Improves comfort
  - Reduces glare
- Aesthetics
  - Upgrades appearance
  - Ensures daytime privacy

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Typical applications include hotels, banks and residential buildings. These films are available with a neutral grey interior finish and a reflective silver exterior finish, in four different light transmission levels.

Fire Certificate
DIN EN 13501-1
√ (B-s1, d0)

DR Grey 10 X | 99 | 99 | 19 | 1 | 13 | 28 | 36 |
DR Grey 20 X | 99 | 99 | 36 | 2 | 36 | 26 | 37 |
DR Grey 35 X | 99 | 99 | 53 | 3 | 46 | 22 | 27 |
DR Grey 50 X | 99 | 99 | 70 | 4 | 59 | 16 | 24 |
The Avery Dennison® SS Natural i Film Series is designed for interior applications. Nanotechnology is used to filter undesired infrared radiation while allowing visible light to pass through and maintaining colour stability (hence the name 'spectrally selective').

These films are an excellent heat rejection upgrade, preserving the natural appearance of a building’s interior and exterior, and are often used for historical buildings. They are available in two different light transmission levels.

Fire Certificate
DIN EN 13501-1
® (B-s1, d0)

SS Natural 45 i
99.9
44.0
26.3
24.1
26

SS Natural 70 i
99.9
66.5
36.3
23.1
25

Key benefits
UV Block
- Protects skin
- Inhibits fading
Lower heat gain
- Improves comfort
- Saves energy
Light control
- Improves comfort
- Reduces glare

The Avery Dennison® SS Natural X Film Series is designed for exterior applications. Nanotechnology is used to filter undesired infrared radiation while allowing visible light to pass through and maintaining colour stability (hence the name 'spectrally selective').

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Fire Certificate
DIN EN 13501-1
® (B-s1, d0)

SS Natural 45 X
99.9
69.9
47.6
27.2
30.3
31

SS Natural 70 X
99.9
69.9
61.7
37.5
30.3
31

SS Blue 75 X
99.9
76.9
69
39.4
8
10

Key benefits
UV Block
- Protects skin
- Inhibits fading
Lower heat gain
- Improves comfort
- Saves energy
Light control
- Improves comfort
- Reduces glare
The Avery Dennison® DS i Film Series is designed for interior applications.

The DS Matte film has a translucent sandblasted appearance, ensuring both privacy enhancements and a design upgrade, whilst the DS UV filter option provides 100% UV block. Typically used in museums.

**Fire Certificate**

DIN EN 13501-1

- √ (B-s1, d0)

### Key benefits

**UV Block**
- Protects skin
- Inhibits fading

**Light control**
- Improves comfort
- Reduces glare

**Aesthetics**
- Upgrades appearance
- Ensures daytime privacy

### Solar Specialty Interior

<table>
<thead>
<tr>
<th></th>
<th>Visible light transmitted %</th>
<th>Total solar energy transmitted %</th>
<th>Total solar energy reflected %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DS Matte i</strong></td>
<td>94</td>
<td>95</td>
<td>73</td>
</tr>
<tr>
<td><strong>DS UV Filter i</strong></td>
<td>100</td>
<td>100</td>
<td>89</td>
</tr>
</tbody>
</table>
The Avery Dennison® SF Clear i Film Series is designed for interior applications. A full range of film thicknesses provides various protection levels from glass shattering caused by impact, blast, crime and natural disaster. These transparent films offer excellent clarity, low reflectance and high UV protection, and are available in four different thicknesses.

<table>
<thead>
<tr>
<th>Thickness in micron</th>
<th>UV Block</th>
<th>Visible light transmitted</th>
<th>SF Clear 4 mil i</th>
<th>97</th>
<th>89</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Clear 7 mil i</td>
<td>99</td>
<td>88</td>
<td>175</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Clear 8 mil i</td>
<td>99</td>
<td>88</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF Clear 12 mil i</td>
<td>99</td>
<td>87</td>
<td>300</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key benefits
- UV Block
- Protects skin
- Protects skin
- Inhibits fading

Safety Clear Exterior

The Avery Dennison® SF Clear X Film Series is designed for exterior applications. It uses a durable, scratch resistant hard coating and an advanced adhesive system. These exterior safety films provide an additional level of protection from the external side of the window, ensuring that glass shards do not injure passing pedestrians. The transparent films offer excellent clarity, low reflectance and high UV protection, and are available in two different thicknesses.

<table>
<thead>
<tr>
<th>Thickness in micron</th>
<th>UV Block</th>
<th>Visible light transmitted</th>
<th>SF Clear 4 mil X</th>
<th>99</th>
<th>88</th>
<th>98</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Clear 7 mil X</td>
<td>99</td>
<td>88</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Surface Protection PolyFilms Interior

Avery Dennison® PolyFilm i is a transparent film designed for interior applications. A unique adhesive allows application on plastic substrates such as polycarbonate or PMMA.

The special surface coating provides resistance to scratching, and enables easy cleaning of most sprays, paints and pens.

Poly Clear 4 mil i

<table>
<thead>
<tr>
<th>UV Block %</th>
<th>Visible light transmitted %</th>
<th>Thickness in micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Pane</td>
<td>Single Pane</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>88</td>
<td>95</td>
</tr>
</tbody>
</table>

Key benefits

- UV Block
- Protects skin
- Inhibits fading

Anti-graffiti
- Protects surface
- Clean and easy removal

Surface Protection PolyFilms Exterior

The Avery Dennison® PolyFilm X Series is designed for exterior applications. A unique adhesive allows application to plastic substrates such as polycarbonate or PMMA.

The special surface coating provides resistance to scratching, protects surface from acid and enables easy cleaning of most sprays, paints and pens. This film also protects plastic substrates against yellowing due to sun exposure and extends plastic lifespan. The transparent material is available in two different thicknesses.

Poly Clear 4 mil X
Poly Clear 6 mil X

<table>
<thead>
<tr>
<th>UV Block %</th>
<th>Visible light transmitted %</th>
<th>Thickness in micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Pane</td>
<td>Single Pane</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>88</td>
<td>98</td>
</tr>
</tbody>
</table>

Key benefits

- UV Block
- Protects skin
- Inhibits fading

Anti-graffiti
- Protects surface
- Clean and easy removal
The Avery Dennison® AG Clear ix Film Series was designed for both interior and exterior applications. A special hard surface coating provides resistance to scratching, protects glass from acid and allows easy cleaning of most sprays, paints and pens. Removing and replacing scratched or damaged film is fast and easy, thanks to a removable adhesive. These transparent films are available in two different thicknesses.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>UV Block %</th>
<th>Visible Light Transmitted %</th>
<th>Thickness in mil</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG Clear 4 mil ix</td>
<td>93.68</td>
<td>90</td>
<td>100</td>
</tr>
<tr>
<td>AG Clear 6 mil ix</td>
<td>99.90</td>
<td>88</td>
<td>150</td>
</tr>
</tbody>
</table>

### Safety Window Films Certificates

**Clear Interior Films**
- SF Clear 4 Mil i: ✓ ✓ (B) ✓ (2B2)
- SF Clear 7 Mil i: ✓ ✓ (2B2)
- SF Clear 9 Mil i: ✓ ✓ (B1)
- SF Clear 12 Mil i: ✓ ✓ ✓ (P2A)

**Clear Exterior Films**
- SF Clear 4 Mil X: ✓ ✓ (2B2)
- SF Clear 7 Mil X: ✓ ✓ (B1)

**Anti-Graffiti Universal Film**
- AG Clear 4 mil ix: ✓
- AG Clear 6 mil ix: ✓

**PolyFilms**
- Poly Clear 4 mil: ✓
- Poly Clear 4 mil X: ✓
- Poly Clear 6 mil X: ✓

**Key benefits**
- **UV Block**
  - Protects skin
  - Inhibits fading
- **Anti-graffiti**
  - Protects surface
  - Clean and easy removal
Restyling or redecorating residential, industrial or commercial buildings depends on a durable, conformable and easy to handle product. Single-layer Avery Dennison Facade Film provides the high adhesion and simple application needed for difficult building substrates such as plastics, aluminium, uncoated/coated steel and reinforced facade panels.

- Single layer construction
- Good conformability
- Up to 10 years durability
- Custom Colour Matching for individual projects

Avery Dennison has been providing premium materials for building facades and door/window frames for more than 15 years. We can support projects in and around Europe, including custom project warranties for customers and end-users.

Facade Film®
for Building Renovation

Fast, clean and easy - residential and commercial redecoration projects

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More information about Facade Film and Trainings ‘how to apply’ can be found on our website www.graphics.averydennison.eu/facade.