**Home or Business...**

Solar Control Window Film is the best choice because it creates an inviting and safe atmosphere at home and in your office. It reflects the sun’s heat and absorbs almost all of the incident ultraviolet rays. TAP Films are available either 36” or 48” wide. All our Films have a rugged scratch-resistant coating.

**Definitions of Film Properties**

1. **Visible Light Transmission:**
   - how much visible light light passes through the film
   - how much is nearly invisible on the window

2. **Visible Light Reflectance:**
   - amount of visible light reflected by the film—measured in percentage
   - reduces the glare that causes eye strain

3. **Ultraviolet Transmittance:**
   - percent of ultraviolet light to pass through a glazing system (rays that fade drapes, carpets, and furniture)

4. **Total Solar Energy (heat) Rejected:**
   - percent of solar energy rejected by a glazing system

<table>
<thead>
<tr>
<th>Typical Solar Properties</th>
<th>R-20</th>
<th>R-50</th>
<th>Safety</th>
<th>Taped</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Visible Light Transmission</td>
<td>15</td>
<td>89</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>% Reflective Index</td>
<td>60</td>
<td>27</td>
<td>9</td>
<td>20</td>
</tr>
<tr>
<td>% Ultraviolet Transmittance (UV)</td>
<td>0-1</td>
<td>0-1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>% Solar Energy (heat) Rejected</td>
<td>79</td>
<td>54</td>
<td>14</td>
<td>28</td>
</tr>
</tbody>
</table>

**Windows Do All The Work**

Save Energy! Add efficiency to Solar Control Window Film’s list of assets. It reflects up to 80% of the sun’s heat and makes a significant reduction in your summertime energy costs. Reduces high energy bills of winter, too.

Keep drapes open and enjoy your view while reducing air-conditioning bills. From inside enjoy glare and distortion free views with a uniform private outside appearance.

TAP Window Film helps hold broken glass in its place and reduces splintering. Reduce the likelihood of injury by applying Window Film to glass surfaces.

**Window Film Tips from TAP**

- Use **TAP Film-Off** to remove old window film. Ask TAP Salesperson for information.
- Apply film to inside of window.
- Install film when temperatures are between 40° and 85°.
- Schedule your installation time when windows will be shaded.
- Use nonabrasive cleansers. Ask TAP Salesperson for information.
- Do not apply to plastic windows.
- Ask a TAP salesperson about splicing film to cover oversize windows.
- Do not install film specifically made for flat-glass windows on your auto windows.
- House plants are not harmed by Solar Control Window Film’s ultraviolet screening action.
- Solar Control Window Film adhesives are not sticky like pressure-sensitive films.
- Ask about Clear Safety Film and special Auto-Tint Film. Ask for Product Bulletin 8 • Auto-Tint Film and Product Bulletin 9 • Plastic for Safety and Security.
- Do-It-Yourself and Save!
- Check our website: tapplastics.com

**TAP Premium Window Films**

Solar Control Window Films (R-20 & R-50): These films reflect up to 80% of the heat and block up to 99% of the damaging ultra-violet light. Use R-20 for the ultimate in heat rejection. Use R-50 for a nearly invisible heat and UV block.

**Safety Film:** This film is invisible on the glass, yet adds 98% UV protection. Use where breaking glass is a safety concern, such as areas where children play. Safety Film also strengthens glass, reducing the chance of break-in. If glass does break, it keeps the glass in the frame, not on the floor. Great for earthquake prone areas. When installed outside, it provides graffiti protection. See Product Bulletin 9 for more details.

**Frosted Film:** Make the glass look professionally sandblasted. It adds privacy without blocking the light. Ideal for bathroom windows, office partitions and doors. Also blocks 98% of damaging UV light.

**TAP Plastics**

- Bellevue WA 12021 NE Northup Way 425 861-0940
- El Cerrito CA 10760 San Pablo Avenue 510 525-3508
- Fremont WA 5160 Mowry Avenue 425 862-6300
- Lynnwood WA 4222 196th St. SW 425 877-4440
- Mountain View CA 312 Castro Street 650 962-8430
- Pleasant Hill CA 1478 Contra Costa Blvd 925 798-0420
- Pleasant Hill CA 6010-C Johnson Drive 925 460-8214
- Portland OR 2942 NE Sandy Blvd 503 230-0770
- Sacramento CA 4538 Auburn Blvd 916 481-7584
- Sacramento CA 4506 Florin Road 916 429-9551
- San Francisco CA 154 S. Van Ness Ave 415 864-7300
- San Jose CA 1212 The Alameda 408 292-9685
- San Jose CA 1008 Blossom Hill Rd 408 265-6400
- San Leandro CA 3011 Alvarado Street 510 357-3755
- San Mateo CA 606 South B Street 650 344-7127
- San Rafael CA 900 Andersen Drive 415 454-9383
- Santa Rosa CA 2770 Santa Rosa Avenue 707 544-8772
- Seattle WA 710 9th Avenue North 206 389-5900
- Stockton CA 1859 Pacific Avenue 209 397-9300
- Tigard OR 15230 SW Sequoia Pkwy 503 620-4960

Visit or shop online: tapplastics.com

**PRODUCT BULLETIN**

Do-It-Yourself Application Instructions

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TAP Plastics • the fantastic plastic place

November 2010
Instructions • How to Install-Film-Yourself

Installation Materials Needed
✓ Spray Bottle
✓ Snap-Off Knife
✓ Masking Tape
✓ Smoothee Squeegee
✓ Window Scraper (for cleaning window)
✓ Solution of Water and Clear Mild Liquid Soap, such as, Johnson’s Baby Shampoo
✓ Straight-Edge
✓ WypAll Lint-Free Towels
✓ A Sponge
✓ 5-Way Tool/Trim Guide

Important • Read Before Applying Film
Do not confuse front side of film with the adhesive side. The adhesive side is covered by the protective liner. Even though the R-20 and R-50 adhesive side is not sticky, it must not be allowed to touch anything before application. Dust or lint on the adhesive side will be permanently trapped between the film and the glass, detracting from the appearance of finished window.

1 Clean Window
thoroughly. A meticulously clean window and working area are the main ingredients of success when installing window film. This first step cannot be stressed enough—make sure the window is very clean!

Remove all traces of paint, varnish, stubborn dirt, or any foreign matter. Spray the window with a liquid soap solution (soap solution: 1 tsp of clear liquid shampoo, i.e. Johnson’s Baby Shampoo, per qt of water). Scrape entire wet window surface with the Window Scraper to remove foreign debris. Use the soap solution again, scrub the window with a sponge, and squeegee window clean. MEASURE your window and cut film approximately 1” to 2” wider and 1” to 2” longer than window.

2 Remove Protective Liner from film by attaching a 2” or 3” piece of masking tape on the front and back side of one of the corners. Leave 1” of tape extended past film. Pull the tapes away from each other to separate the liner from film.

3 Spray Soap Solution generously over entire window surface. Avoid spraying the edge of the glass as this can wash trapped dirt onto the glass. Next spray adhesive side of film with the soap solution (the side exposed by removal of liner).

4 Apply Film In Place with the adhesive side on the window. The soap solution acts as a lubricant to allow positioning of film. GENEROUSLY spray “room-side” surface of film to lubricate before squeegeeing.

5 Use the Squeegee to apply film to the window, working from the center of the film to the outer edges with short gentle strokes. Carefully work out wrinkles and bubbles with the squeegee. Do not squeegee all the way to the edge yet. Leave about 1” all the way around. BE CAREFUL NOT TO CREASE or WRINKLE FILM.

6 Trim Excess Film use the 5-way tool to trim the film as follows: place the tool on the window and slide it into the corner, pushing the film down against the edge of the window. Place the snap off knife against the 5-way tool on the glass side. Slide the knife halfway down the tool, cutting the film as you go, then move the knife and tool down the edge of the window together. This will trim the film in a straight line and leave a 1/16” gap between the film and the window frame. Repeat for the other edges.

7 Spray Film and firmly squeegee surface to remove excess water between film and glass. This time squeegee all the way to the edges. Using paper towels blot edges of film completely dry.

8 Clean Finished Window with a non-ammoniated window cleaner (your soap-solution is ideal). When you clean the window, be careful not to disturb the film’s adhesion to the glass—it will not bond completely until it is dry (it will take several days).

A slight haze may occur overnight in some instances, but will disappear in 10-30 days as the film dries depending on sun exposure.

Recommended Applications
TAP window films are approved for use on single or dual pane windows.

Note: Window film should never be applied to chipped or cracked glass. A common cause of stress-related breakage is preexisting chips on the edges of glass. Even though these chips cannot be seen beneath the window frame, they weaken the glass pane.

Before Installing Window Film
Remove drapery materials or shades that may interfere with installation. Clean window frames and sills thoroughly. Coat loose window putty or flaking paint with clear fingernail polish to keep loose particles from falling into work area. Allow nail polish to dry.

Because we have no control over working conditions or methods, products should be tested to establish suitability for your individual application. Our liability is limited to the price of this product.