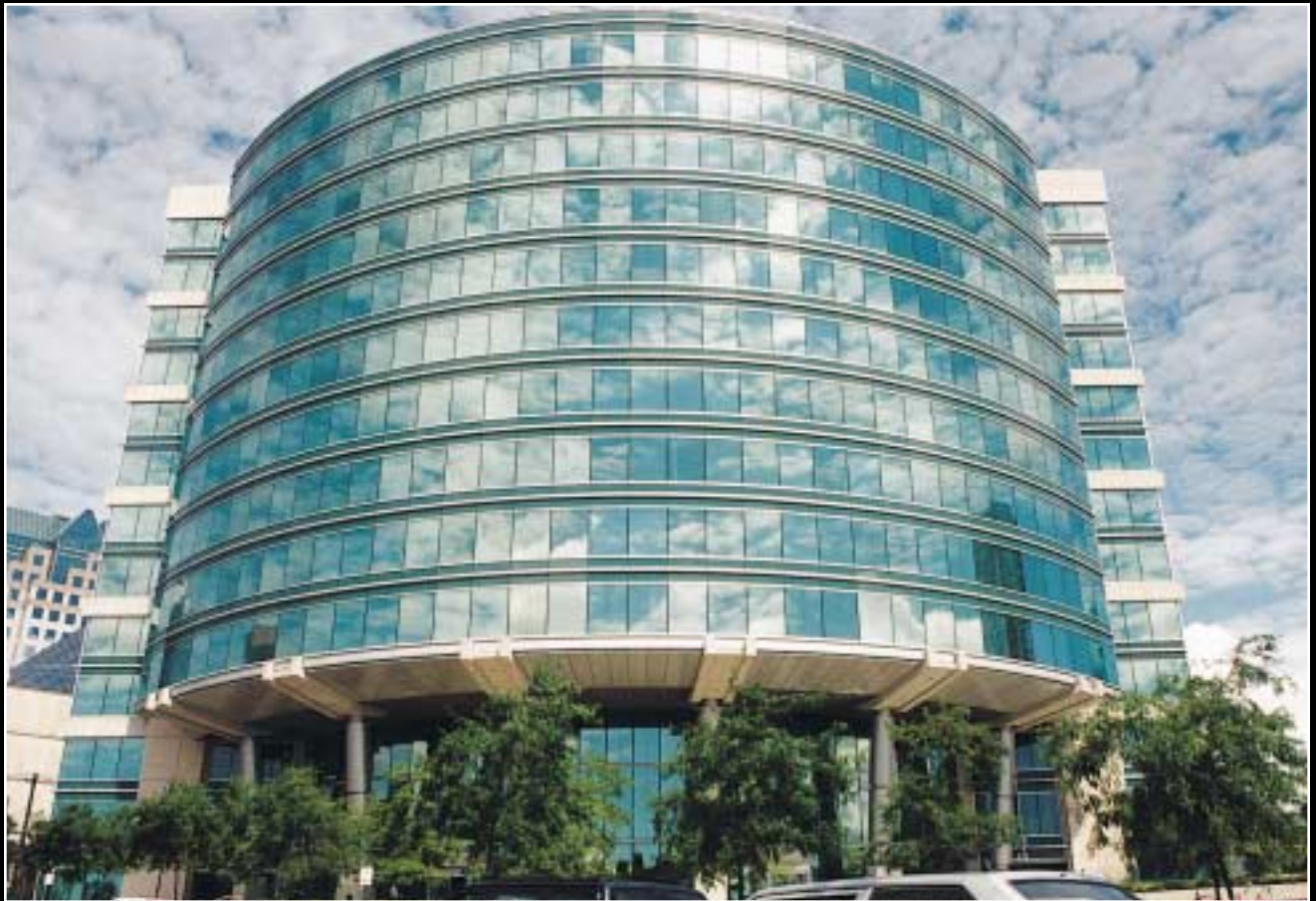


3M

Scotchint[™]

Sun Control Window Film

Commercial Building Applications



- **Save Energy**
- **Improve HVAC Efficiency**
- **Filter UV Rays**
- **Reduce Damage from Breakage**
- **Improve Aesthetics**

3M™ Scotchtint™ Window Films

No one has more experience in window films than 3M. In fact, 3M was issued the first-ever patent on sun control window film in 1966. Since then, 3M has invested millions of dollars in film research and development. Today, millions of square feet of 3M window films are installed all around the world.

Better Selection

There is a complete selection of films that vary in color, density and heat rejection qualities to ensure there's one to accurately match your needs.

Better Bond

Only Scotchtint window film has an adhesive developed by 3M especially for window film. This exclusive acrylic adhesive system combines the advantages of many commonly used systems. The result is clean, easy installation. Excellent impact and glass holding resistance. And no bubbling, blistering, puckering or wrinkling.

Scotchtint window film can show you over 30 years of clear proof. The pressure-sensitive adhesive used with Scotchtint window film keeps its uniformity and integrity from year to year. It maintains clarity, resists distortion due to changing temperatures, and withstands weathering, sunlight, UV and heat for many years.

More Advantages

- **Energy**
Scotchtint window film gives your windows added insulating value to help increase comfort and reduce energy consumption. In warm weather, 3M Scotchtint Sun Control and 3M™ Scotchtint™ Plus All Season Window Films block out up to 79% of the sun's heat at the window surface to help reduce air conditioning costs.
- **Safety**
Scotchtint films use 3M's proprietary adhesive technology to bond tightly to the glass. This helps hold shattered glass in place and helps reduce the dangers associated with breakage. In the event of severe weather, earthquakes, explosions, fires or vandalism, this can significantly reduce injuries due to flying glass.
- **Improved HVAC Efficiency**
The use of more environmentally safe refrigerants for commercial chillers will cause a cooling dilemma. Chiller conversions will experience a loss in cooling capacity, an efficiency drop that could reach 15%. Because the 3M window film cuts heat gain from 19% to 76%, the chillers capacity loss can be offset. An application of Scotchtint window film may allow the building owner to maintain the level of cooling comfort for tenants without adding expensive cooling capacity or increasing annual energy costs from additional chiller run time.
- **Improved Aesthetics**
Viewed from the outside, Scotchtint film disguises the clutter and disarray of half-drawn drapes and blinds, non-uniform furniture placement and uneven lighting. And provides you with an economical way to make your building more attractive and more valuable. A complete selection of films that vary in color, density and heat rejection qualities, offers your building the ideal balance of aesthetic and performance characteristics.
- **UV Protection**
The sun's ultraviolet rays are a major contributor to fading. Carpeting, paneling, desks, drapes and upholstered furniture represent a sizable investment that can quickly lose value when damaged by prolonged exposure to the sun. Scotchtint film filters out up to 99% of the harmful UV rays, fading is considerably reduced and furnishings are better protected.
- **3M Reputation**
3M window films are backed by a limited warranty that covers both materials and labor. This warranty even covers glass breakage due to thermal shock and seal failure at no additional charge.

Window Film Applications

Sun Control Window Film

Keep heat from getting in and you won't have to pay to pump it out. Unlike drapes and blinds, Scotchtint Sun Control Window Film rejects up to 79% of the heat that would otherwise come through the window. That can translate into a savings of about one ton of air conditioning for every 100 square feet of glass exposed to sunlight.



3M™ Scotchtint™ Sun Control Films stop most of the sun's heat before it enters your building.

- Reduce air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduce glare and eye discomfort.
- Furniture and fabrics have a longer acceptable life.
- Increase personal safety from flying glass.
- Allows you to insulate your windows and keep your view.



All Season Window Film

In cooler climates, 3M's Scotchtint Plus All Season (Low E) film works to save energy by reflecting indoor heat back into the room. This can reduce heat loss by 23% to 30% and can reduce air conditioning cost by blocking 55% to 73% of the sun's heat coming through windows, saving you fuel and improving tenant comfort. In addition, an energy efficient building puts less strain on your heating and cooling system, thus reducing maintenance and extending the life of the equipment.





3M™ Scotchtint™ Plus All Season Films reduce heat loss by reflecting back indoor radiant heat.

- Savings on heating costs.
- Stay warmer by retaining more heat in cooler months.
- Reduce air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Furniture and fabrics have a longer acceptable life.
- Increase personal safety from flying glass.



Performance Guide

Glass/3M Film Product	Shading Coefficient	Visible Light		Emissivity	"U" Value	Heat Gain Reduction	Heat Loss Reduction	Glare Reduction	UV Blocked	Total Solar Energy Rejected
		Reflected	Transmitted							
 1/4" CLEAR	.94	8%	88%	.84	1.06	—	—	—	—	18%
NV-15	.29	43%	15%	.70	1.04	—	2%	83%	99%	75%
NV-25	.39	29%	24%	.72	1.05	59%	1%	72%	99%	66%
NV-35	.49	18%	35%	.74	1.06	49%	0%	60%	99%	57
NV-45	.63	8%	9.4%	.78	1.06	34%	0%	49%	99%	45%
RE20NEARL	.39	17%	16%	.84	1.06	59%	0%	82%	99%	66%
RE35NEARL	.51	20%	37%	.84	1.06	45%	0%	58%	99%	56%
RE50NEARL	.66	15%	51%	.84	1.06	30%	0%	42%	98%	43%
RE70NEARL	.76	9%	66%	.87	1.08	19%	0%	25%	98%	34%
P-18ARL	.26	58%	19%	.65	.95	72%	10%	78%	99%	77%
RE35AMARL	.30	55%	30%	.68	.95	68%	10%	66%	99%	74%
RE35SIARL	.40	42%	33%	.68	.97	57%	8%	63%	98%	65%
RE50NIARL	.49	23%	48%	.60	.95	48%	11%	45%	99%	57%
LE20SIAR	.25	53%	17%	.45	.82	73%	23%	81%	98%	78%
LE35AMARL	.29	56%	31%	.34	.74	69%	30%	65%	99%	75%
SOLEIL	.67	8%	77%	.70	1.04	29%	2%	13%	93%	42%
 1/4" TINTED	.69	5%	50%	.84	1.06	29%	—	—	—	40%
NV-15	.33	16%	9%	.70	1.04	52%	2%	82%	99%	71%
NV-25	.38	12%	14%	.72	1.05	48%	1%	72%	99%	67%
NV-35	.44	8%	21%	.74	1.06	40%	0%	58%	99%	62%
NV-45	.52	6.4%	27%	.78	1.06	29%	0%	45%	99%	55%
RE20NEARL	.37	8%	9%	.84	1.06	46%	0%	82%	99%	68%
RE35NEARL	.45	9%	22%	.84	1.06	35%	0%	56%	99%	61%
RE50NEARL	.48	6%	25%	.84	1.06	30%	0%	50%	99%	58%
RE70NEARL	.61	6%	41%	.87	1.08	12%	0%	18%	99%	47%
P-18ARL	.30	20%	10%	.65	.95	57%	10%	80%	99%	74%
RE35AMARL	.33	22%	18%	.68	.95	52%	10%	64%	99%	71%
RE35SIARL	.38	16%	18%	.68	.97	45%	8%	64%	98%	67%
RE50NIARL	.42	10%	27%	.60	.95	39%	11%	45%	99%	63%
LE20SIAR	.27	22%	10%	.45	.82	61%	23%	80%	99%	77%
LE35AMARL	.30	18%	19%	.34	.74	57%	30%	62%	99%	74%
SOLEIL	.55	5%	44%	.70	1.04	20%	2%	12%	96%	52%

Additional information regarding double pane glass is available upon request.

Important Notice: This brochure was prepared as an introductory summary of the 3M product described herein. The information provided herein is based upon typical installation conditions and is believed to be reliable. However, due to the wide variety of possible intervening factors, 3M does not warrant that the desired result will necessarily be obtained. Details concerning product specifications and guarantee may be obtained from 3M. Specifications are subject to change. Sales of subject product is limited to 3M's conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES.



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