

**3M** Science.  
Applied to Life.™

Climate Control



## Virtually invisible insulation. Enhance comfort and efficiency year round with 3M™ Thinsulate™ Window Film Climate Control.

- ▶ Helps provide increased insulation performance, much like upgrading single pane to double pane and double pane to triple pane windows
- ▶ Helps improve comfort during cold winter months
- ▶ Heat rejection helps provide comfort and energy savings in summer months
- ▶ High visible light transmission film with a neutral appearance that helps maintain the building's existing appearance
- ▶ Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ▶ Comprehensive warranty from 3M

Visible Light Transmission ★★★★★

Winter Insulation ★★★★★

Year Round Comfort ★★★★★

Best ★★★★★

Better ★★★★

Good ★★★

Fair ★★

Not Recommended ★

*In comparison to other 3M™ Window Films*

## Thinsulate, insulation for your windows.



Valued Associations and Alliances:



CLINTON  
**CLIMATE**  
INITIATIVE



## Climate Zone 6





Historic Minnesota Governor's Residence  
1,000 sq ft installation of 3M™ Thinsulate™  
Window Film Climate Control 75.

### Customer Issues:

- ▶ Historic property that could not change the look of the building
- ▶ Single pane windows, caused cold, drafty areas
- ▶ Needed to meet state energy savings goals



## Product Performance and Technical Data

Glass Type (All 1/4")	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient (G Value)	U Value		Heat Loss Reduction	Heat Gain Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
		Reflected (interior)	Reflected (exterior)	Transmitted			btu/ hft²F	w/ m²K					
 Clear	Thinsulate™ 40	10%	7%	36%	59%	0.41	0.63	3.6	39%	50%	99.8%	59%	0.9
	Thinsulate™ 75	12%	15%	74%	47%	0.53	0.63	3.6	40%	35%	99.9%	17%	1.4
 Tinted	Thinsulate™ 40	9%	5%	22%	67%	0.33	0.63	3.6	39%	48%	99.9%	59%	0.6
	Thinsulate™ 75	10%	8%	44%	60%	0.40	0.63	3.6	40%	37%	99.9%	17%	1.1
 Double Clear	Thinsulate™ 40	11%	14%	32%	54%	0.46	0.35	2.0	26%	34%	99.8%	59%	0.7
	Thinsulate™ 75	17%	21%	66%	49%	0.51	0.35	2.0	26%	27%	99.9%	16%	1.3
 Tinted Clear	Thinsulate™ 40	11%	8%	19%	66%	0.34	0.35	2.0	26%	33%	99.9%	59%	0.6
	Thinsulate™ 75	15%	10%	40%	63%	0.37	0.35	2.0	26%	27%	99.9%	15%	1.1

## LEED Certification

Window films may be used toward the following LEED credits

- ▶ SS-8
- ▶ MR 1.1-1.2
- ▶ EQ-7.1
- ▶ EQ-8.1-8.2
- ▶ EA-1
- ▶ MR 5.1-5.2
- ▶ EQ-7.2
- ▶ ID

**Warranty and Limited Remedy:** 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If the 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.



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