

**Renewable Energy Division**  
3M™ Sun Control Window Film Night Vision 35



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- Nano-carbon heat gain reduction technology
- Keeps occupants cool and comfortable
- Reduces heating and cooling costs
- Reduces glare and eye discomfort
- Extends the life and vibrancy in furniture, fittings and fabrics
- Reduces the risk of injury from flying glass

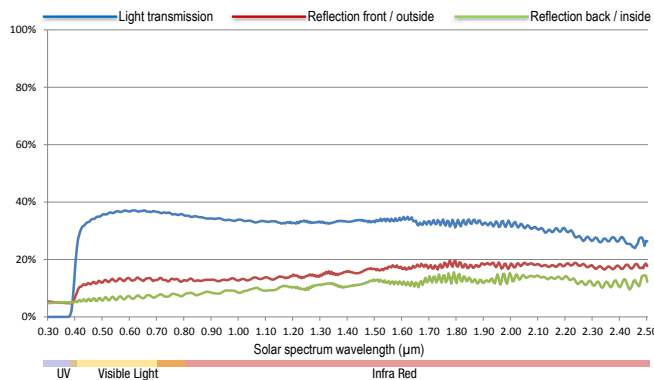
# 3M™ Sun Control Window Film Night Vision 35

## Description

**3M Sun Control Window Films** are an elegant way to manage light and heat. 3M technology can significantly reduce heat gain and create a comfortable environment, especially in warmer months, as well as helping to reduce the workload of air conditioners and save energy costs. 3M Window Films also blocks almost the entire amount of UVA and UVB rays which are the main cause of fading and skin damage.

**3M's Night Vision 35** is designed for use on the internal surface of windows. Night Vision 35's nano-carbon technology reflects the sun's rays while allowing optical clarity to be maintained and creates even distribution of the sun's rays effectively reduces the effect of dazzle and glare. Also, depending on lighting conditions, rooms are protected against prying eyes from looking in.

## Solar Performance and light transmission



## Features (on 6 mm clear glass)

Total Solar Energy Rejected	52%
Glare reduction	59%
UV rays blocked	99%

## Film properties

Thickness	0.063mm / 63µm
Colour	Anthracite
Material	Polyester
Adhesive	Pressure sensitive acrylic
Top coating	Scratch resistant hard coat

## Installation

3M Window Films are installed using a water and soap solution. Full adhesion is reached after approximately 20 days at 18°C (in dry conditions).

## Cleaning

3M Window Films may be cleaned 30 days after installation using ordinary window cleaning agents and avoiding the use of abrasive particles. Do not use rough sponges, cloths or brushes. Synthetic sponges, soft wipes or rubber squeegee cleaners are recommended.

Glass Type	Film Type on 6mm glass	Visible Light Transmission	Visible Reflection Exterior	Visible Reflection Interior	Heat Gain Reduction	G-value (Solar Heat Gain Coefficient)	Total Solar Energy Rejected
<b>Single Pane</b>							
Clear	No film	89%	8%	9%	N/A	0.82	19%
	<b>NV 35</b>	<b>36%</b>	<b>13%</b>	<b>7%</b>	<b>41%</b>	<b>0.48</b>	<b>52%</b>
Tinted	No film	53%	6%	6%	N/A	0.63	37%
	<b>NV 35</b>	<b>22%</b>	<b>8%</b>	<b>6%</b>	<b>33%</b>	<b>0.42</b>	<b>58%</b>
<b>Double Pane</b>							
Clear	No film	79%	15%	15%	N/A	0.70	30%
	<b>NV 35</b>	<b>32%</b>	<b>19%</b>	<b>8%</b>	<b>21%</b>	<b>0.55</b>	<b>45%</b>
Tinted	No film	47%	8%	13%	N/A	0.51	49%
	<b>NV 35</b>	<b>19%</b>	<b>10%</b>	<b>7%</b>	<b>19%</b>	<b>0.41</b>	<b>59%</b>

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