

# 3M™ Sun Control Film Night Vision 25

## Description

**3M™ Sun Control Film Night Vision 25** is designed for use on the inside surface of windows. Unlike other sun control solutions, this film reflects the sun's rays while allowing optical clarity to be maintained. Even distribution of the sun's rays effectively reduces the effect of dazzle. Besides, the film significantly reduces the amount of UVA and UVB rays which are the main cause of fading.

**3M Sun Control Film Night Vision** has low reflection to inside and outside – especially at night. The patented manufacturing process guarantees especially durable stability of the colour of the Night Vision films.

**3M Sun Control Films** significantly reduce heat gain and create a balanced environment in the premises. Especially in summer months they help to reduce the workload of air conditioners and save energy costs!

**3M Sun Control Films** – an elegant way to use light and heat. Special advantages of the films include their high transparency and light transmission. Also, depending on lighting conditions, the room is protected against prying eyes outside from looking in.

## Features (on 6 mm clear glass)

|                              |      |
|------------------------------|------|
| Total solar energy rejected: | 60 % |
| G-value                      | 0.40 |
| Glare reduction:             | 73 % |
| UV rays blocked:             | 99 % |

## Film properties

|              |                             |
|--------------|-----------------------------|
| Thickness:   | 0,063 mm / 63µm             |
| Colour:      | Anthracite                  |
| Material:    | Polyester                   |
| Adhesive:    | Pressure sensitive acrylic  |
| Top coating: | Scratch resistant hard coat |

## Installation

**3M Window films** are installed using water and a 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    | Shading Coefficient | Visible Refelction Exterior | Visible Reflection Interior | Visible Light Transmission | Heat Gain Reduction | U-value     | G-value     | TSER        |
|--------------------|--------------|---------------------|-----------------------------|-----------------------------|----------------------------|---------------------|-------------|-------------|-------------|
| <b>Single Pane</b> |              |                     |                             |                             |                            |                     |             |             |             |
| Clear              | No Film      | 0.94                | 8 %                         | 9 %                         | 89 %                       | NA                  | 1.03        | 0.82        | 18 %        |
|                    | <b>NV 25</b> | <b>0.46</b>         | <b>20 %</b>                 | <b>7 %</b>                  | <b>24 %</b>                | <b>51%</b>          | <b>1.00</b> | <b>0.40</b> | <b>60 %</b> |
| Tinted             | No Film      | 0.72                | 13 %                        | 9 %                         | 53 %                       | NA                  | 1.03        | 0.63        | 37 %        |
|                    | <b>NV 25</b> | <b>0.43</b>         | <b>10 %</b>                 | <b>7 %</b>                  | <b>14 %</b>                | <b>40%</b>          | <b>1.00</b> | <b>0.38</b> | <b>62 %</b> |
| <b>Double Pane</b> |              |                     |                             |                             |                            |                     |             |             |             |
| Clear              | No Film      | 0.80                | 15%                         | 15%                         | 79%                        | NA                  | 0.47        | 0.70        | 30%         |
|                    | <b>NV 25</b> | <b>0.57</b>         | <b>24%</b>                  | <b>8%</b>                   | <b>22%</b>                 | <b>29%</b>          | <b>0.47</b> | <b>0.49</b> | <b>51%</b>  |
| Tinted             | No Film      | 0.58                | 8 %                         | 13 %                        | 47 %                       | NA                  | 0.47        | 0.51        | 49 %        |
|                    | <b>NV 25</b> | <b>0.43</b>         | <b>12 %</b>                 | <b>8 %</b>                  | <b>13 %</b>                | <b>27%</b>          | <b>0.47</b> | <b>0.37</b> | <b>63 %</b> |

## General notes:

All technical data is based on a combination of relevant European test methods and/or US test methods. Before using this product the customer / applicator must ensure the product is suitable to be used for the intended purpose. If there is any uncertainty, please check with your local 3M Window Film specialist. All issues regarding warranty and liability for the product and the effect of its use are governed in accordance with the provisions of the appropriate contract of sale unless local laws dictate otherwise.



Renewable energy Division  
Window Films  
[www.3M.com/windowfilms](http://www.3M.com/windowfilms)

Your local Window Film Dealer:



# **3M™ Sun Control Film**

## **Night Vision 25**

- Low interior and exterior reflectivity, especially at night.
- A warm natural hue invites warmth and beauty to any room.
- Reduce air conditioning costs.
- Reduces glare and eye discomfort.
- Abrasion resistant surface to maintain good appearance longer.
- Extends the life and vibrancy in furniture and carpet fabrics.
- Reduces the risk of injury from flying glass.