

#### **Commercial Solutions Division**

# 3M<sup>™</sup> All Seasons Amber 35 Window Film Climate Control Window Film

**Product Bulletin** 

### 1. Product Description

3M<sup>™</sup> All Seasons Amber 35 Window Film is a combined solar control and insulating window film for interior application.

# 2. Applications

3M™ All Seasons Amber 35 is intended for interior application on flat glass substrates.

## 3. Typical Properties

These are indicative values for 3M™ Window Film products.

Product construction				
Material base	Metallized Polyester			
Adhesive	Pressure sensitive acrylic			
Protective liner	Siliconized PET			

Typical I	Typical Performance Properties according to EN 410											
Glass Type	Film Type	Visible Light			Total		LSG (Light	U Value				
		Reflected (interior)	Reflected (exterior)	Trans- mission	Solar Energy Rejected	G Value (SHGC)	to solar gain)	btu/ hft²F	W/m²K	Heat Loss Reduction	Heat Gain Reduction	Glare Reduction
Single	Single Pane											
Clear	No Film	9	8	89	19	0.82	1.1	1.03	5.9	NA	NA	NA
	Amber 35	60	54	30	75	0.25	1.2	0.85	4.8	17	69	67
Tinted	No Film	6	6	53	37	0.63	0.8	1.03	5.9	NA	NA	NA
	Amber 35	60	22	17	73	0.27	0.7	0.85	4.8	17	57	67
Doubl	Double Pane											
Clear	No Film	15	15	79	30	0.7	1.1	0.47	2.6	NA	NA	NA
	Amber 35	61	53	28	68	0.32	0.8	0.42	2.4	11	54	65
Tinted	No Film	13	8	47	49	0.51	0.9	0.47	2.6	NA	NA	NA
	Amber 35	61	22	16	74	0.26	0.6	0.42	2.4	11	48	66

The values above are the results of illustrative lab test measurements and shall not be considered as a commitment from 3M.

#### 4. User Information

#### 4.1 Shelf Life & Storage (prior to application)

Shelf life is 5 years from the manufacturing date. Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Recommended storage conditions are +21°C and 40 – 50% relative humidity. Avoid extreme temperature ranges in storage.

The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.

#### 4.2 Application

These are indicative values for 3M™ Window Film products.

Recommended substrate	Glass (as described in EN 15755-1)
Recommended surface	Flat to simple curved
Application method	Suitable for wet application
Application temperature	From +4°C to +45°C
Application guidelines	Use a firm, narrow squeegee e.g. Blue Max 12.7cm. Use both hands to apply consistent, firm pressure across the squeegee blade. Overlap 50% from previous stroke. Remove as much water pass as possible in one pass.
Service temperature	From -40°C to +70°C
Edge sealing	Not necessary
Drying time	Low E films have a strong barrier layer which slows drying time. Water left behind can accumulate and form visible pockets. Once all water is removed, final adhesion is reached after approximately 30 days at +18°C and dry conditions. Please refer to local instructions for details.

#### 4.3 Maintenance and Cleaning

Use a cleaning agent designed for high quality glass surfaces. The cleaning agent must be wet and non- abrasive with a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline).

#### 5. Remarks

This bulletin provides technical information only.

To request additional product information see address below.

## **Important Notice**

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.



Responsible for this technical bulletin:

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