

## Commercial Solutions Division

# 3M™ Prestige 20 Exterior Window Film

## Solar Control Window Film

### Product Bulletin

## 1. Product Description

3M™ Prestige 20 Exterior is a multilayer, metal free, spectrally selective solar control film with a durable scratch resistant surface and a weather stable acrylic adhesive.

## 2. Applications

3M™ Prestige 20 Exterior is intended for exterior application on flat glass substrates.

3M™ Prestige 20 Exterior Solar Control Window Film has been tested and classified according to EN 45545-2 Behaviour on exposure to fire in rail applications.

## 3. Typical Properties

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

Product construction	
Material base	Multi-layered PET/PMMA
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

Typical Performance Properties according to EN 410									
Glass type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission					
Single Pane		%	%	%	%		%	%	%
Clear	No Film	9	8	89	18	0.82	38	NA	NA
	PR 20 EX	5	5	21	66	0.34	99.9	58	77
Tinted	No Film	6	6	53	37	0.63	NA	NA	NA
	PR 20 EX	5	5	13	69	0.31	99.9	52	77
Double Pane									
Clear	No Film	15	15	79	30	0.70	NA	NA	NA
	PR 20 EX	12	6	18	76	0.24	99.9	66	77
Tinted	No Film	13	8	47	49	0.51	NA	NA	NA
	PR 20 EX	12	5	11	80	0.20	99.9	61	77

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	Tempered Glass <b>Important Notice:</b> A 3M Glass Check is recommended for application on float and laminated float glass.
Recommended surface	Flat to simple curved
Application method	Suitable for wet application or dry, semi-automatic lamination
Application temperature	From +8°C to +45°C
Application guidelines	Check weather forecast when planning the application. Do not install during precipitation or if the exterior temperature should drop below 0°C within 15 days after installation.
Service temperature	From - 40°C to + 80°C
Edge sealing	Recommended on horizontal applications. Not necessary on vertical applications except where moisture can accumulate for an extended time.
Drying time	Final adhesion is reached after approximately 8 - 10 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.

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## Commercial Solutions Division

# 3M™ Prestige 40 Exterior Window Film

## Solar Control Window Film

### Product Bulletin

## 1. Product Description

3M™ Prestige 40 Exterior is a multilayer, metal free, spectrally selective, solar control film with a durable scratch resistant surface and a weather stable acrylic adhesive.

## 2. Applications

3M™ Prestige 40 Exterior is intended for exterior application on flat glass substrates.

## 3. Typical Properties

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

Product construction	
Material base	Multi-layered PET/PMMA
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

Typical Performance Properties according to EN 410										
Glass type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	LSG (Light to solar gain)	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission						
Single Pane		%	%	%	%			%	%	%
Clear	No Film	9	8	89	19	0.82	1.1	38	NA	NA
	PR 40 EX	5	6	42	61	0.39	1.1	99.9	53	53
Tinted	No Film	6	6	53	37	0.63	0.8	NA	NA	NA
	PR 40 EX	5	5	25	67	0.33	0.8	99.9	47	53
Double Pane										
Clear	No Film	15	15	79	30	0.70	1.1	NA	NA	NA
	PR 40 EX	13	7	37	71	0.29	1.3	99.9	59	53
Tinted	No Film	13	8	47	49	0.51	0.9	NA	NA	NA
	PR 40 EX	12	6	22	77	0.23	1.0	99.9	55	53

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 or dry, semi-automatic lamination
Application temperature	From + 8°C to + 45°C
Application guidelines	Check weather forecast when planning the application. Do not install during precipitation or if the exterior temperature should drop below 0°C within 15 days after installation.
Service temperature	From - 40°C to + 80°C
Edge sealing	Recommended on horizontal applications. Not necessary on vertical applications except where moisture can accumulate for an extended time.
Drying Time	Final adhesion is reached after approximately 8-10 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

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## Commercial Solutions Division

# 3M™ Prestige 70 Exterior Window Film

## Solar Control Window Film

### Product Bulletin

## 1. Product Description

3M™ Prestige 70 Exterior is a multilayer, metal free, spectrally selective, solar control film with a durable scratch resistant surface and a weather stable acrylic adhesive.

## 2. Applications

3M™ Prestige 70 Exterior is intended for exterior application on flat glass substrates.

## 3. Typical Properties

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

Product construction	
Material base	Multi-layered PET/PMMA
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

Typical Performance Properties according to EN 410										
Glass type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	LSG (Light to solar gain)	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission						
Single Pane		%	%	%	%			%	%	%
Clear	No Film	9	8	89	19	0.82	1.1	38	NA	NA
	PR 70 EX	7	7	71	52	0.48	1.5	99.9	41	20
Tinted	No Film	6	6	53	37	0.63	0.8	NA	NA	NA
	PR 70 EX	5	6	42	61	0.39	1.1	99.9	39	20
Double Pane										
Clear	No Film	15	15	79	30	0.70	1.1	NA	NA	NA
	PR 70 EX	14	12	63	61	0.39	1.6	99.9	45	20
Tinted	No Film	13	8	47	49	0.51	0.9	NA	NA	NA
	PR 70 EX	13	7	38	71	0.29	1.3	99.9	43	21

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 or dry semi-automatic lamination
Application temperature	From +8°C to +45°C
Application guidelines	Check weather forecast when planning the application. Do not install during precipitation or if the exterior temperature should drop below 0°C within 15 days after installation.
Service temperature	From -40°C to +80° C (not for extended periods of time at the extremes)
Edge sealing	Recommended on horizontal applications. Not necessary on vertical applications except where moisture can accumulate for an extended time.
Drying Time	Final adhesion is reached after approximately 8-10 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

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## Commercial Solutions Division

# 3M™ Prestige 90 Exterior Window Film

## Solar Control Window Film

### Product Bulletin

## 1. Product Description

3M™ Prestige 90 Exterior is a multilayer, metal free, spectrally selective, solar control film with a durable scratch resistant surface and a weather stable acrylic adhesive.

## 2. Applications

3M™ Prestige 90 Exterior is intended for exterior application on flat glass substrates.

## 3. Typical Properties

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

Product construction	
Material base	Multi-layered PET/PMMA
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

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

Typical Performance Properties according to EN 410										
Glass type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	LSG (Light to solar gain)	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission						
Single Pane		%	%	%	%			%	%	%
Clear	No Film	9	8	89	19	0.82	1.1	38	NA	NA
	PR 90 EX	9	9	88	36	0.64	1.4	99.9	21	1
Tinted	No Film	6	6	53	37	0.63	0.8	NA	NA	NA
	PR 90 EX	6	6	53	50	0.5	1.1	99.9	21	1
Double Pane										
Clear	No Film	15	15	79	30	0.70	1.1	NA	NA	NA
	PR 90 EX	16	15	78	45	0.56	1.4	99.9	21	1
Tinted	No Film	13	8	47	49	0.51	0.9	NA	NA	NA
	PR 90 EX	13	9	47	60	0.4	1.2	99.9	20	1

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 or dry, semi-automatic lamination
Application temperature	From + 8°C to +45°C
Application guidelines	Check weather forecast when planning the application. Do not install during precipitation or if the exterior temperature should drop below 0°C within 15 days after installation.
Service temperature	From -40°C to +80°C (not for extended periods of time at the extremes)
Edge sealing	Recommended on horizontal applications. Not necessary on vertical applications except where moisture can accumulate for an extended time.
Drying Time	Final adhesion is reached after approximately 8-10 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

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