ORAFOL

Automotive Window Films

ORACAL®

Engineered to Perform Better™

CA Series

ORACAL®

ORACAL® CA Series

These single layered automotive window films have an ideal thickness and are available in different tone options. While providing a good heat blocking performance, the color does not fade and the films are non-reflective.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® CA'05

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
5.5%	4.8%	5.1%	34.3%	5.7%	60%	31%	99%	50%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

ORACAL® CA Series

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ORACAL® CA'15

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
11%	5%	5.1%	36.3%	5.8%	57.9%	31%	99%	48.6%

** Total Solar Energy Rejected

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ORACAL® CA Series

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- 38 micron
- Expected Service Life: 5 Years

ORACAL® CA'20

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
20.5%	5.2%	5%	40.2%	5.8%	54%	31%	99%	45.5%

** Total Solar Energy Rejected

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ORACAL® CA Series

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- 38 micron
- Expected Service Life: 5 Years

ORACAL® CA'35

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
31.3%	5.5%	5.3%	46.1%	6.1%	47.8%	31%	99%	41.2%

** Total Solar Energy Rejected

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ORACAL® CA Series

These single layered automotive window films have an ideal thickness and are available in different tone options. While providing a good heat blocking performance, the color does not fade and the films are non-reflective.

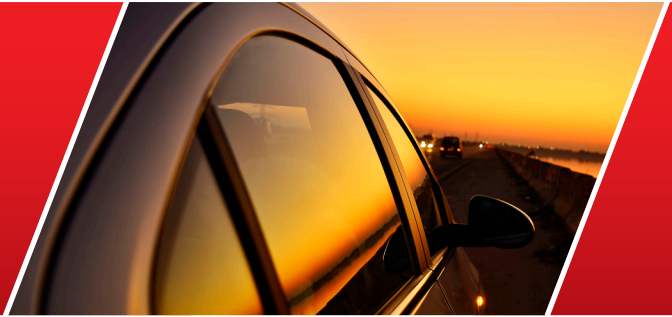
- 38 micron
- Expected Service Life: 5 Years

ORACAL® CA'50

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
48%	6.2%	6.1%	54%	6.4%	39.6%	30%	99%	35.5%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.



Basic Series

ORACAL®

ORACAL® Basic Series

These double layered automotive window films have an ideal thickness and are available in different tone options. The color of these films provides a natural look from inside. Additionally, the ORACAL® Basic Series offers a higher heat blocking performance than standard window films. ORACAL® Basic window films are easy to apply when right methods and equipment are used.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® Basic'05

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
5.3%	4.8%	6.8%	29.7%	7.9%	62.4%	37%	99%	54%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

ORACAL® Basic Series

These double layered automotive window films have an ideal thickness and are available in different tone options. The color of these films provides a natural look from inside. Additionally, the ORACAL® Basic Series offers a higher heat blocking performance than standard window films. ORACAL® Basic window films are easy to apply when right methods and equipment are used.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® Basic'15

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
10.8%	4.9%	7.2%	32.4%	7.9%	59.7%	37%	99%	52%

** Total Solar Energy Rejected

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ORACAL® Basic Series

These double layered automotive window films have an ideal thickness and are available in different tone options. The color of these films provides a natural look from inside. Additionally, the ORACAL® Basic Series offers a higher heat blocking performance than standard window films. ORACAL® Basic window films are easy to apply when right methods and equipment are used.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® Basic'20

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
16.8%	5.3%	7.6%	34.4%	8.4%	57.2%	37%	99%	50.6%

** Total Solar Energy Rejected

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ORACAL® Basic Series

These double layered automotive window films have an ideal thickness and are available in different tone options. The color of these films provides a natural look from inside. Additionally, the ORACAL® Basic Series offers a higher heat blocking performance than standard window films. ORACAL® Basic window films are easy to apply when right methods and equipment are used.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® Basic'35

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
26.9%	5.9%	7.5%	40.2%	8.9%	50.9%	37%	99%	46.5%

** Total Solar Energy Rejected

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ORACAL® Basic Series

These double layered automotive window films have an ideal thickness and are available in different tone options. The color of these films provides a natural look from inside. Additionally, the ORACAL® Basic Series offers a higher heat blocking performance than standard window films. ORACAL® Basic window films are easy to apply when right methods and equipment are used.

- 38 micron
- Expected Service Life: 5 Years

ORACAL® Basic'50

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
40.5%	7.3%	8.1%	46.4%	9.3%	44.3%	37%	99%	42%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

NT Advanced Series

ORACAL®

ORACAL® NT Advanced Series

These are double-layered, nano-technological / carbon automotive window films with ideal thickness and different tone options. These series has a structure that prevents heat at high levels. ORACAL® NT Advanced Series films are produced with advanced technology. These films provide ease of application when right methods and equipment are used.

- 38 micron
- Expected Service Life: 7 Years

ORACAL® NT Advanced'05

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
6.3%	6.19%	6.19%	16.42%	11.08%	72.49%	74.4%	99%	64.66%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

ORACAL® NT Advanced Series

These are double-layered, nano-technological / carbon automotive window films with ideal thickness and different tone options. These series has a structure that prevents heat at high levels. ORACAL® NT Advanced Series films are produced with advanced technology. These films provide ease of application when right methods and equipment are used.

- 38 micron
- Expected Service Life: 7 Years

ORACAL® NT Advanced'20

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
16.8%	7.42%	7.42%	24.25%	12.39%	63.36%	64.2%	99%	59.21%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

ORACAL® NT Advanced Series

These are double-layered, nano-technological / carbon automotive window films with ideal thickness and different tone options. These series has a structure that prevents heat at high levels. ORACAL® NT Advanced Series films are produced with advanced technology. These films provide ease of application when right methods and equipment are used.

- 38 micron
- Expected Service Life: 7 Years

ORACAL® NT Advanced'30

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
29.3%	7.99%	7.99%	28.87%	12.61%	58.51%	64.1%	99%	55.86%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

ORACAL® NT Advanced Series

These are double-layered, nano-technological / carbon automotive window films with ideal thickness and different tone options. These series has a structure that prevents heat at high levels. ORACAL® NT Advanced Series films are produced with advanced technology. These films provide ease of application when right methods and equipment are used.

- 38 micron
- Expected Service Life: 7 Years

ORACAL® NT Advanced'50

Visible Light Transmitted	Visible Light Reflected (int)	Visible Light Reflected (ext)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
46.02%	9.48%	9.48%	37.80%	13.45%	48.75%	62.3%	99%	49.48%

** Total Solar Energy Rejected

The automotive window films have a logo imprinted on the film surface which can be wiped easily with isopropyl alcohol.

Windshield Series

ORACAL®

ORACAL® Windshield WS Series

This is a double-layered, nano-technology front window film with ideal thickness, applied interiorly. The heat blocking performance of this product is higher than standard window films. These films are ideal for car front windows with the high level of clarity and light transmission in order not to hinder vision.

- 38 micron
- Expected Service Life: 7 Years

ORACAL® Windshield WS'70

Visible Light Transmitted	Visible Light Reflected (int)	Solar Energy Transmitted	Solar Energy Reflected	Solar Energy Absorbed	IR Rejection	UV Rejection	TSER**
75.2%	8.06%	35.72%	14.24%	50.03%	86.7%	99%	51.22%

** Total Solar Energy Rejected

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