



# Automotive & Building Window Films

**Why should you use window films?**

- Window films block hazardous UV lights and heat coming directly from the sun so people can protect themselves against skin and eye diseases.
- Since window films block heat it reduces the usage of air conditioner, which is energy saving for its users.
- Window films prevent the colours of furnitures, plastic parts and fabric upholstery from fading.
- Window films make the inside area of the car / building unseen for your privacy.
- Window films protect you and your family from shattered glass in case of an accident or a natural cause. .
- Window films create an aesthetic appeal for cars and buildings.

**ORACAL®****Window Films for  
Cars & Buildings****Why should you choose ORACAL® Window Films?**

- ORACAL® Window Films provide high quality performance functionally as well as create an aesthetic appeal.
- You and your family can have a strong protection from UV lights by using ORACAL® Window Films.
- As other ORAFOL products, ORACAL® Window Films are also produced with the highest technology.

## ORACAL® CA Series Automotive Window Films

These automotive window films are a single layer, auto glass film. They are an ideal thickness and are available in different tone options. The color does not fade and the films are non-reflective. Additionally, this product offers a higher heat blocking performance than standard window films.



- 38 micron

ORACAL® CA	ORACAL® CA'05	ORACAL® CA'15	ORACAL® CA'20	ORACAL® CA'35	ORACAL® CA'50	ORACAL® CA'70
VLT*	5.5%	11%	20.5%	31.3%	48%	77.5%
TSER**	50%	48.6%	45.5%	41.2%	35.5%	27.2%
UV Rejection	99%	99%	99%	99%	99%	99%
IR Rejection	31%	31%	31%	31%	30%	31%

## ORACAL® Basic Series Automotive Window Films

These double layered auto glass films are an ideal thickness and are available in different tone options. The color of these films provide 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 using the right methods and equipment.



- 38 micron

ORACAL® Basic	ORACAL® Basic'05	ORACAL® Basic'15	ORACAL® Basic'20	ORACAL® Basic'35	ORACAL® Basic'50
VLT*	5.3%	10.8%	16.8%	26.9%	40.5%
TSER**	54%	52%	50.6%	46.5%	42%
UV Rejection	99%	99%	99%	99%	99%
IR Rejection	37%	37%	37%	37%	37%

\* VLT: Visible Light Transmittance  
\*\* TSER: Total Solar Energy Rejected

## ORACAL® NT Series Automotive Window Films

These double layered window films are an ideal thickness and are available in different tone options. The ORACAL NT window films have a structure that prevents heat at high levels. A version that allows the transmission of high-level light is also available. These films are easy to apply when using the right methods and equipment.

- 38 micron (ORACAL® NT'80 is 50 micron).

ORACAL® NT	ORACAL® NT'05	ORACAL® NT'20	ORACAL® NT'35	ORACAL® NT'50	ORACAL® NT'80
VLT*	7.5%	23%	33.8%	49.1%	79%
TSER**	62.5%	57.1%	53.8%	47.4%	36.2%
UV Rejection	99%	99%	99%	99%	99%
IR Rejection	75%	71%	71%	71%	72%

\* VLT: Visible Light Transmittance

\*\* TSER: Total Solar Energy Rejected



**ORACAL® NT Plus Series****Automotive Window Films**

These double layered, nanoceramic auto window films are an ideal thickness and are available in different tones. They are structured to prevent heat at the highest levels. Application over double glazed windows is not recommended. They are easy to apply when the right methods and equipment are used.

- 38 micron

ORACAL® NT PLUS	ORACAL® NT PLUS'05	ORACAL® NT PLUS'20	ORACAL® NT PLUS'35	ORACAL® NT PLUS'50
VLT*	5.2%	17%	30%	52.3%
TSER**	69.5%	64.8%	61.8%	53.7%
UV Rejection	99%	99%	99%	99%
IR Rejection	99%	99%	99%	99%

\* VLT: Visible Light Transmittance

\*\* TSER: Total Solar Energy Rejected





**ORACAL® Safety Series****Safety Window Films**

These are double layered safety window films that are available in transparent and colored options. Please note that only the 100-micron version is one layered. These safety films prevent impacted glass from being scattered, which reduces the risk of damage. They are suitable for use in buildings, glass facades, and motor vehicles. Various thickness options are available.

- 100 micron/200 micron/375 micron (transparent), 125 micron (colored)

ORACAL® SAFETY Window Films	ORACAL® SAFETY 100 Micron	ORACAL® SAFETY 200 Micron	ORACAL® SAFETY 375 Micron	ORACAL® SAFETY'20 125 Micron	ORACAL® SAFETY'35 125 Micron	ORACAL® SAFETY'50 125 Micron
VLT*	88.9%	88%	86.9%	22.3%	35.2%	52.3%
TSER**	16.8%	16.4%	17.6%	39.2%	34.2%	28.9%
UV Rejection	99%	99%	99%	99%	99%	99%
IR Rejection	10%	10%	11%	11%	11%	11%

\* VLT: Visible Light Transmittance

\*\* TSER: Total Solar Energy Rejected



**ORACAL® Commercial S Series****Building Window Films**

These are silver/metalized building glass films that are double layered, in ideal thickness, and available in different tone options. Using ORACAL® Commercial S Series in vehicles is not recommended because they are highly reflective. These films can be easily applied when the right methods and equipment are used.

- 50 micron (silver)

ORACAL® COMMERCIAL S	ORACAL® COMMERCIAL S'00	ORACAL® COMMERCIAL S'05	ORACAL® COMMERCIAL S'20	ORACAL® COMMERCIAL S'30	ORACAL® COMMERCIAL S'50	ORACAL® COMMERCIAL S'60
VLT*	2.3%	5.8%	21.8%	38%	52.8%	64.2%
TSER**	93.6%	88.5%	74.7%	61.2%	39.9%	33.5%
UV Rejection	99%	99%	99%	99%	99%	99%
IR Rejection	99.4%	94%	82%	71%	48%	39%

\* VLT: Visible Light Transmittance

\*\* TSER: Total Solar Energy Rejected



Automotive & Building Window Films  
**Engineered to Perform Better™**



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