



Caravan Materials

ORACAL®

ORAJET®

ORAGUARD®

Engineered to Perform Better™



ORAFOL Europe GmbH

ORAFOL's Worldwide Locations





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Caravan Materials

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In the past it has been a challenge to apply decorations to the sides of caravans, due to the surfaces with the typically textured characteristics. This is no longer the case, and there are a lot of benefits to this technique versus varnish.

- Faster
- Cost effective
- Due to the fact that caravans are built in different materials (GRP, ABS, hammer finish varnish, etc.) it can be difficult to paint in the same colour, and wrapping is easier
- Environmentally friendly and better for the health of the installers
- Endless design possibilities
- The vinyl will protect the original paint

On www.orafol.com you can download full application and maintenance instructions, technical datasheets, information about product service life, climate zones, and much more.



Example of ORAJET[®] 3106 SG

Application of printed designs on caravans opens the doors to unique designs, promotions / advertising, and the possibilities of fleet identification.

Caravan Film Premium Cast

ORAJET® 3961/3961RA

The glossy surface of these materials provide extra bright and vivid prints. **Recommended for extra textured surfaces.**

Product benefits include:

- Cast high performance PVC film (55 micron)
- White, gloss
- Adhesive: modified solvent polyacrylate, permanent. It provides an aggressive initial tack and high final adhesion.
- Inkjet printing with solvent based inks, UV- or latex inks.
- Lamination: ORAGUARD® 290

Note for RA: The product should be worked in, cut and applied with an overlap at the edge, for more curved surfaces, or for corrugations and rivets.

The *RapidAir*® technology allows a rapid and bubble-free application.

Caravan Film

ORAJET® 3106 SG

The satin-gloss finish of this material provides a very elegant look, and the relatively heavy thickness of the film makes it easy to apply. **Recommended for less textured surfaces.**

Product benefits include:

- Calendered high performance polymeric PVC film (100 micron)
- White, satin-gloss
- Adhesive: modified solvent polyacrylate, permanent. It provides an aggressive initial tack and high final adhesion.
- Inkjet printing with solvent based inks, UV- or latex inks.
- Lamination: ORAGUARD® 215, 290, 290F, 297F

Digital Printing Cast

ORAJET® 3951/3951RA

For less difficult substrates

Product benefits include:

- Premium cast PVC film (55 micron)
- White and transparent, gloss (3951RA: white)
- Extreme durability and dimensional stability in corrugations and on rivets
- Adhesive: Solvent polyacrylate, repositionable, permanent, grey and transparent (3951RA: grey)

- Inkjet printing with solvent based inks, UV- or latex inks
- Lamination: ORAGUARD® 290, 290F, 293, 293F

Note for RA: The product should be worked in, cut and applied with an overlap at the edge, for more curved surfaces, or for corrugations and rivets.

The *RapidAir*® technology allows a rapid and bubble-free application.

Premium Cast

ORACAL® 952/952RA

Specially developed for use in high quality screen printing for lettering, marking and decoration, which have the highest requirements for durability and solidity.

Product benefits include:

- Cast PVC film (70 micron)
- Extreme durability and stability
- Excellent dimensional stability
- White and transparent in gloss finish (RA version: white)
- Adhesive: Solvent polyacrylate, permanent, transparent

Premium Cast

ORACAL® 953/953RA

Product benefits include:

- Cast PVC film (70 micron)
- Extreme durability and stability
- Excellent dimensional stability
- White and transparent in gloss finish (RA version: white)
- Adhesive: Solvent polyacrylate, repositionable, permanent, transparent

The *RapidAir*® technology allows a rapid and bubble-free application.

If a solid colour pattern is needed, these ORACAL films are the ideal solution. The cast plotter films provide high quality and long durability, and are perfect for labelling and design elements (e.g. ornamental strips).

Caravan Film Premium Cast

ORACAL® 961/961RA

For special decorations on challenging surfaces (uneven, porous, or textured, e.g. hammer finish varnish) of caravans and trailers. Especially recommended for applications on low energy plastics (polyethylene, polypropylene), that require high resistance on long term. Ideal adjustment on surface structure. Suitable for thermal transfer printing (with resin ribbons).

Product benefits include:

- Cast high performance PVC film (55 micron)
- White, black, silver grey and yellow, gloss
- Adhesive: modified solvent polyacrylate, permanent. It provides an aggressive initial tack and high final adhesion.
- Thermal transfer printing (with resin ribbons)

Note for RA: The product should be worked in, cut and applied with an overlap at the edge, for more curved surfaces, or for corrugations and rivets.

The *RapidAir*® technology allows a rapid and bubble-free application.

High Performance Cast

NEW COLOUR

ORACAL® 751C

Suitable for uneven surfaces as well as for rivets and corrugations.

Product benefits include:

- Cast PVC film (60 micron)
- 117 high gloss colours + matt black / white
- Adhesive: Solvent polyacrylate, permanent
- Thermal transfer printing (with resin ribbons)

Premium Cast

ORACAL® 951

Extreme durability and dimensional stability also in corrugations and on rivets.

Product benefits include:

- Premium cast PVC film (50 micron)
- 146 high gloss colours + matt black / white
- Adhesive: solvent polyacrylate, permanent
- Thermal transfer printing (with resin ribbons)



Example of ORACAL® 751C

Premium Wrapping Cast

ORACAL® 970/970RA

The ideal film for wrapping of varnished parts.

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- 96 vivid standard colours
- Glossy and matt colours
- Supermatt available in black
- Large range of metallic colours

- Excellent dimensional stability and gloss retention
- Adhesive: Solvent polyacrylate, repositionable, permanent

Note for RA: The product should be worked in, cut and applied with an overlap at the edge, for more curved surfaces, or for corrugations and rivets.

The *RapidAir*® technology allows a rapid and bubble-free application.

Premium Shift Effect Cast

ORACAL® 970/970RA

The shade shifting version of the classic ORACAL 970 Series.

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- 9 colours, gloss and matt
- Excellent dimensional stability and gloss retention
- Adhesive: Solvent polyacrylate, repositionable, permanent

Note for RA: The product should be worked in, cut and applied with an overlap at the edge, for more curved surfaces, or for corrugations and rivets.

The *RapidAir*® technology allows a rapid and bubble-free application.

Premium Special Effect Cast

ORACAL® 970/970RA

Same quality as standard ORACAL® 970 film but with a **unique glitter effect**.

4 NEW
COLOURS

Product benefits include:

- Multi-layered cast PVC film (110 micron)
- Glossy or matt finish

- 8 colours
- Adhesive Solvent polyacrylate, repositionable, permanent

The *RapidAir*® technology allows a rapid and bubble-free application.

Premium Structure Cast

ORACAL® 975

The ideal tuning film for adding special design effects to caravan parts, also for uneven and arched surfaces* also for interior applications

Product benefits include:

- Multi-layer cast PVC film (150 micron)
- 7 structured optics
- Several colours each
- Adhesive: Solvent polyacrylate, repositionable, permanent

Black Carbon: also available in a *RapidAir*® (RA) version. The *RapidAir*® technology allows a rapid and bubble-free application.

* not for heavily bent surfaces

Vinyl decorations are ideal for the caravan cabin, with vast possibilities for creative designs even with exciting structured surfaces or special colour effects. The application is easy as furniture and construction parts do not need to be removed while refurbishing. ORACAL® 970 and ORACAL® 975 are also perfect for interior decorations.

Wall Art

ORACAL® 638

For indoor applications such as markings, inscriptions and decorations.

Product benefits include:

- Soft PVC Film (80 micron)
- 57 matt colours
- Conforms well with substrate
- Application tape: ORATAPE® LT95
- Adhesive: Polyacrylate, removable

For Doming Applications

These top coated polyester films are particularly suited for first-class decorative labels like doming labels, name plates and technical plates. They possess an excellent dimensional stability, good long term ageing properties and may be applied to apolar and structured substrates.

Print Polyester

ORACAL® 301F

For screen printed decorative labels and doming applications.

Product benefits include:

- Polyester film (50 micron)
- White gloss, metallised chrome or chrome brushed
- Adhesive: modified solvent polyacrylate, permanent

Digital Printing Polyester

ORAJET® 3301F

For digitally printed decorative labels and doming applications.

Product benefits include:

- Polyester film (50 micron)
- Metallised chrome or chrome brushed
- Adhesive: Modified solvent polyacrylate, permanent

Stoneguard Films

ORAGUARD® 270 / 270F / 280 / 280F / 283 / 283F / 285F

Product benefits include:

- Highly transparent films
- Glossy surface
- Adhesive is solvent polyacrylate, permanent
- High UV-resistance
- Excellent tear strength

Product	Type	Thickness
ORAGUARD® 280 / 280F*	Polyurethane film	200 micron
ORAGUARD® 283 / 283F*	Polyurethane film	130 micron
ORAGUARD® 270 / 270F*	Polymeric PVC film	150 micron
ORAGUARD® 285F	Polyurethane film	50 micron

*) The release material of this product is a 100 µm polyester film.

ORACAL® Cleaning and Care Products

Give your new vehicle decor the best possibilities to last

ORACAL® Cleaning and Care agents have been specifically developed for the surface treatment of vehicles wrapped with ORAFOL® car wrapping films. All the products in the range have been engineered to enable consistent, excellent results.

With ORACAL® cleaning and care agents, you can be sure that you are always working with professional cleaning and care treatment for your vehicle.

The products are supplied in complete care kits, with versions for glossy or matt surfaces. Each kit contains:

- 500 ml Shampoo
- 500 ml Intensive Cleaner
- 500 ml Fast Care Agent
- 500 ml Long-Lasting Seal
- 2 x Special Wrapping Film Cleaning Sponges

Each item in the kit is also available for purchase separately (in batches of 4).



For the professional car wrapper:

ORACAL® Pre-wrap surface cleaner

This special pre-wrap surface cleaner degreases and removes cleaning agent residues prior to the application of ORAFOL® self-adhesive films.

Contact ORAFOL for details.

Item code: 359500030

Product	Type	Item code
ORACAL® Cleaning and Care Kit	For glossy car wrapping films	359500010
ORACAL® Cleaning and Care Kit	For matt car wrapping films	359500020



Product Overview – Caravan Materials

Glass Decorations

Films	Product	Short name	Front material	Colours / surfaces Gloss (G), Satin-gloss (SG), Matt (M), Super matt (SM)	Adhesive	Printing
Digital Printing	ORAJET® 3961	Caravan Film Premium Cast	Cast high performance PVC	White (G)	Modified solvent polyacrylate, permanent, with aggressive initial tack and high final adhesion, grey	Inkjet printing with solvent based inks, UV- or Latex inks
	ORAJET® 3961RA	Caravan Film Premium Cast - <i>RapidAir®</i>	Cast high performance PVC	White (G)	Modified solvent polyacrylate, permanent, with high final adhesion, grey. The <i>RapidAir®</i> enables easy and quick application without air inclusion.	Inkjet printing with solvent based inks, UV- or Latex inks
	ORAJET® 3106SG	Caravan Film	Calendered high performance polymeric PVC film	White (SG)	Modified solvent polyacrylate, permanent, with aggressive initial tack and high final adhesion	Inkjet printing with solvent based inks, UV- or Latex inks
	ORAJET® 3951	Digital Printing Cast	Cast PVC film	White (G) Transparent (G)	Solvent polyacrylate, repositionable, permanent, grey	Inkjet printing with solvent based inks, UV- or Latex inks
	ORAJET® 3951RA	Digital Printing Cast- <i>RapidAir®</i>	Cast PVC film	White (G)	Solvent polyacrylate, repositionable, permanent, grey. The <i>RapidAir®</i> enables easy and quick application without air inclusion.	Inkjet printing with solvent based inks, UV- or Latex inks
	ORACAL® 3301F	Digital Printing Polyester	Polyester film	Metallised chrome Chrome brushed	Modified solvent polyacrylate, permanent	Inkjet printing with solvent based inks, UV- or Latex inks
Screen Printing	ORACAL® 301F	Print Polyester	Polyester film	White (G) Metallised chrome Chrome brushed	Modified solvent polyacrylate, permanent	Screen printing and UV offset printing
	ORACAL® 952	Premium Cast	Cast PVC film	White (G) Transparent (G)	Modified solvent polyacrylate, permanent	Screen printing, UV-offset printing and flexo printing
	ORACAL® 952RA	Premium Cast- <i>RapidAir®</i>	Cast PVC film	White (G)	Modified solvent polyacrylate, permanent The <i>RapidAir®</i> enables easy and quick application without air inclusion.	Screen printing, UV-offset printing and flexo printing
	ORACAL® 953	Premium Cast	Cast PVC film	White (G) Transparent (G)	Modified solvent polyacrylate, repositionable, permanent	Screen printing, UV-offset printing and flexo printing
	ORACAL® 953RA	Premium Cast- <i>RapidAir®</i>	Cast PVC film	White (G)	Modified solvent polyacrylate, permanent The <i>RapidAir®</i> enables easy and quick application without air inclusion.	Screen printing, UV-offset printing and flexo printing
CAD/CAM	ORACAL® 961	Caravan Film Premium Cast	Cast high performance PVC	White (G) Black (G) Silver grey (G) Yellow (G)	Modified solvent polyacrylate, permanent, with aggressive initial tack and high final adhesion	Thermal transfer printing (with resin ribbons)
	ORACAL® 961RA	Caravan Film Premium Cast - <i>RapidAir®</i>	Cast high performance PVC	White (G) Black (G) Silver grey (G) Yellow (G)	Modified solvent polyacrylate, permanent, with high final adhesion. The <i>RapidAir®</i> enables easy and quick application without air inclusion.	Thermal transfer printing (with resin ribbons)
	ORACAL® 751C	High Performance Cast	Cast PVC film	117 colours (G) White (G,M) Black (G,M)	Solvent polyacrylate, permanent	Glossy surface is ideal for thermal transfer printing (with resin ribbons)
	ORACAL® 951	Premium Cast	Cast PVC film	146 colours (G) White (G,M) Black (G,M)	Solvent polyacrylate, permanent	Glossy surface is ideal for thermal transfer printing (with resin ribbons)
Wrapping	ORACAL® 970	Premium Wrapping Cast	Multi-layered cast PVC film	75 colours (G) 21 colours (M) Black (G,M,SM)	Solvent polyacrylate, repositionable, permanent	
	ORACAL® 970RA	Premium Wrapping Cast- <i>RapidAir®</i>	Multi-layered cast PVC film	75 colours (G) 21 colours (M)	Solvent polyacrylate, repositionable, permanent The <i>RapidAir®</i> enables easy and quick application without air inclusion.	
	ORACAL® 970	Premium Shift Effect Cast	Multi-layered cast PVC film	9 colours (G, M)	Solvent polyacrylate, repositionable, permanent	
	ORACAL® 970RA	Premium Shift Effect Cast- <i>RapidAir®</i>	Multi-layered cast PVC film	9 colours (G, M)	Solvent polyacrylate, repositionable, permanent The <i>RapidAir®</i> enables easy and quick application without air inclusion.	
	ORACAL® 970	Premium Special Effect Cast	Multi-layered cast PVC film	8 colours (G) 2 colours (M)	Solvent polyacrylate, repositionable, permanent	
	ORACAL® 970RA	Premium Special Effect Cast- <i>RapidAir®</i>	Multi-layered cast PVC film	8 colours (G) 2 colours (M)	Solvent polyacrylate, repositionable, permanent The <i>RapidAir®</i> enables easy and quick application without air inclusion.	
	ORACAL® 975	Premium Structure Cast	Multi-layered cast PVC film	7 structures in a range of colours	Solvent polyacrylate, repositionable, permanent	
Stone Guard	ORAGUARD® 270 / 270F	Stone Guard Film	Polymeric PVC Film	Transparent (G)	Solvent polyacrylate, permanent	
	ORAGUARD® 280 / 280F	Stone Guard Film	Polyurethane Film	Transparent (G)	Solvent polyacrylate, permanent	
	ORAGUARD® 283 / 283F	Stone Guard Film	Polyurethane Film	Transparent (G)	Solvent polyacrylate, permanent	
	ORAGUARD® 285F	Stone Guard Film	Polyurethane Film	Transparent (G)	Solvent polyacrylate, permanent	

	Lamination						Thickness	Adhesive Power*	Minimum application temperature	Temperature resistance	Widths (mm)		Lengths (m)
	ORAGUARD® 215	ORAGUARD® 290	ORAGUARD® 290F	ORAGUARD® 293	ORAGUARD® 293F	ORAGUARD® 297F							
		•					55 micron	30 N/25 mm	>+4° C	-50° C to +100° C	1370 1520		50
		•					55 micron	20 N/25 mm	>+4° C	-50° C to +100° C	1370 1520		50
	•	•	•			•	100 micron	28 N/25 mm	>+4° C	-50° C to +100° C	1370		50
		•	•	•	•		55 micron	18 N/25 mm	> +8° C	-50° C to +100° C	760 1050 1370 1520	1370 1520	50
		•	•	•	•		55 micron	16 N/25 mm	> +8° C	-50° C to +100° C	760 1050 1370 1520	(white only: 914)	50
							50 micron	25 N/25 mm	> +8° C	-50° C to +100° C	1370		25 50
							50 micron	25 N/25 mm	> +8° C	-50° C to +100° C	1000 1260		50
							70 micron	18 N/25 mm	> +8° C	-50° C to +120° C	1000 1260 1400		50
							70 micron	16 N/25 mm	> +8° C	-50° C to +120° C	1000 1260 1400		50
							70 micron	20 N/25 mm	> +8° C	-50° C to +120° C	1000 1260 1400		50
							70 micron	18 N/25 mm	> +8° C	-50° C to +120° C	1000 1260 1400		50
							55 micron	30 N/25 mm	>+4° C	-50° C to +120° C	1260		25 50
							55 micron	20 N/25 mm	>+4° C	-50° C to +120° C	1260		25 50
							60 micron	18 N/25 mm	> +8° C	-50° C to +120° C	378 500 630	914 1000 1260	50
							50 micron	18 N/25 mm	> +8° C	-50° C to +110° C	378 500 630	1000 1260	50
							110 micron	18 N/25 mm	> +15° C	-50° C to +120° C	1520	(white + transparent only: 914)	25 50
							110 micron	16 N/25 mm	> +15° C	-50° C to +120° C	1520		25 50
							110 micron	18 N/25 mm	> +15° C	-50° C to +120° C	1520		25 50
							110 micron	16 N/25 mm	> +15° C	-50° C to +120° C	1520		25 50
							110 micron	18 N/25 mm	> +15° C	-50° C to +120° C	1520		25 50
							110 micron	16 N/25 mm	> +15° C	-50° C to +120° C	1520		25 50
							150 micron	22 N/25 mm	> +15° C	-50° C to +120° C	1520		10 25 50
							150 micron	20 N/25 mm	> +10° C	-40° C to +110° C	270: 1260, 1400, 1520 270F: 1520		25 50
							200 micron	18 N/25 mm	> +10° C	-40° C to +100° C	1260 1520		25 50
							130 micron	18 N/25 mm	> +10° C	-40° C to +100° C	283: 1260, 1520 283F: 1520		25 50
							50 micron	18 N/25 mm	> +10° C	-40° C to +110° C	1370 1520		25 50

* after 24 hours applied to stainless steel

Caravan Materials
Engineered to Perform Better™



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