

Graphic Innovations

Marine applications



Engineered to Achieve Perfection™





ORAFOL Europe GmbH

Headquarters and production facility

ORAFOL is one of the world's leading manufacturers of innovative self-adhesive graphic films, reflective materials and adhesive tape systems. The international ORAFOL Group is headquartered just outside the city gates of Berlin, in Oranienburg.

ORAFOL's Worldwide Locations



Marine applications

ORAFOL offers a vast range of high quality graphic films for marine applications.

Made in Germany.

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Boat Exteriors - Special Films Colour Applications

Premium Structure Cast

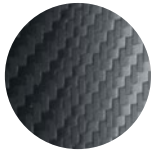
ORACAL® 975

Exciting boat tuning film in a range of **different textures** and colours. The ideal design refinement film for boat hulls or boat interiors.

Product benefits include:

- Multi-layered Cast PVC (150 micron)
- Five different structured optics
- Several colours in each structure
- Solvent polyacrylate, repositionable, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

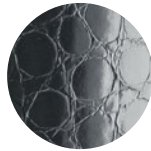
Black Carbon: Also available in a *RapidAir®* (RA) version. The *RapidAir®* technology allows a rapid and bubble-free application.



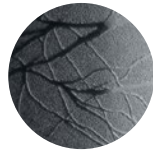
Carbon



Honeycomb



Crocodile



Cocoon



Brushed

Premium Shift Effect Cast

ORACAL® 970

Boat wrapping film with a **unique shade shifting effect depending on viewing angle**. Ideal for wrapping of boat hulls.

Product benefits include:

- Multi-layered PVC film (110 micron)
- Glossy or matt finish
- 9 colours
- Solvent polyacrylate, repositionable, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

Premium Special Effect Cast

ORACAL® 970

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

Product benefits include:

- Multi-layered PVC film (110 micron)
- Glossy or matt finish
- 8 colours
- Solvent polyacrylate, repositionable, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

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



Boat Exteriors - Solid Colour Applications

Boat wrapping is the ideal alternative to boat painting, which can be a very time consuming process. You will typically be able to wrap a 12-meter boat in one or two working days, where the traditional painting process takes significantly longer. Wrapping also opens up a world of new, exciting and creative design possibilities, with printed designs, subtle design enhancements with textures, or brilliant special effects. **Boat wrapping can be done to all types of boats (above waterline).**

- Significant reduction in application time
- Very affordable price, definitely cheaper than painting
- Unlike painting, vinyl wrapping does not require the time consuming task of masking off
- Environmentally friendly process for the installer
- Easy removal
- The vinyl protects original paint, so the boat hull can appear as new at the point of reselling

Premium Wrapping Cast

ORACAL® 970

Highest durability and stability

Product benefits include:

- Multi-layered high performance cast PVC film (110 micron)
- Glossy or matt finish
- 96 colours
- Solvent polyacrylate, repositionable, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

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

CAD/CAM

Premium Cast

ORACAL® 951

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

Product benefits include:

- Premium cast PVC film (50 micron)
- Glossy finish (white and black also available in matt)
- 139 colours
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

High Performance Cast

ORACAL® 751C

Meets the highest requirements for solidity and durability.

Product benefits include:

- High-performance cast PVC film (60 micron)
- 117 high gloss colours + matt black / white
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation



Boat wrapping unleashes unlimited possibilities for creating unique and personal designs, whilst at the same time benefitting from quick application times and a more environmentally friendly decoration solution.



Boat Exteriors - Digital Printing

Digital Printing Cast

ORAJET® 3951

Product benefits include:

- Premium Cast PVC film (55 micron)
- Glossy finish
- White and transparent
- Solvent polyacrylate, repositionable, permanent, grey or transparent
- Recommended laminating films: ORAGUARD® 290/293
- Sea water resistance (DIN EN ISO 9227). Adhered to aluminium; after 100h/35° C no variation

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



Boat Exteriors - Screen Printing

Print Polyester

ORACAL® 301F

For screen printed decorative labels and doming applications

Product benefits include:

- Polyester film (50 micron)
- White gloss, chrome or chrome brushed
- Modified solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227).
- Adhered to aluminium; after 100h/35° C no variation

Digital Printing Polyester

ORAJET® 3301F

For digitally printed decorative labels and doming applications.

Product benefits include:

- Polyester film (50 micron)
- Chrome or chrome brushed
- Modified solvent polyacrylate, permanent

Boat Interiors - Solid Colour Applications

The high quality films from ORAFOL create unlimited design possibilities for boat interiors; from wall art decorations, privacy instalments on glass partitions, textured design enhancements on dashboards – to photoluminescent exit signs. Different applications require different solutions, and within the range from ORAFOL you will find all the specialised films needed. Furniture and construction parts do not have to be removed when being refurbished.

Wall Art

ORACAL® 638

The wall art film will provide room for personality and individuality to any boat interior.

Product benefits include:

- Soft PVC film (80 micron)
- Matt surface
- 57 colours
- Polyacrylate, easily removable

The ORACAL® 970/975 are also perfect for applications to the interior of the boat. For product details please see pages 4/5.



Photoluminescent Signs and Labelling

For markings of danger spots and decorative elements that are visible at night

Luminescent Cast

ORAJET® 3930

Digital printing film with photoluminescent properties, for indoor and outdoor markings.

Product benefits include:

- Three-layered, light yellow, cadmium-free, premium cast PVC film (150 micron)
- Glossy surface
- Ink-jet printing with solvent based inks, UV- or Latex inks
- Recommended laminating film: ORAGUARD® 293
- Solvent polyacrylate, permanent

Luminescent Cast

ORALUX® 9300

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

Product benefits include:

- Three-layered, light yellow, cadmium-free, high performance cast PVC film (150 micron)
- Screen printing
- Glossy satin surface
- Solvent polyacrylate, permanent



Boat Interiors - Screen Printing Metallised Films

For decorative labels, name- and technical plates, decorations and symbols

Ultraleaf Cast

ORACAL® 383

Unique pressure sensitive film for lettering, marking and decoration of windows and signs with highest requirements for long outdoor durability.

Product benefits include:

- Metallised cast alkyd resin film (85 micron)
- High-gloss finish
- 3-dimensional embossed in chrome and glossy gold
- Solvent polyacrylate, permanent

Polyester Film

ORACAL® 351

This high-gloss metallic film is available in a double-sided version, providing outstanding effects when applied onto transparent surfaces.

Product benefits include:

- Metallised polyester film (23 micron / 50 micron)
- Chrome, matt chrome, chrome-brushed, gloss gold on both sides and rose gold
- Top coated surface for printing
- Solvent polyacrylate, permanent

Print Polyester

ORACAL® 352

Print polyester for labels and decorations

Product benefits include:

- Transparent, white or metallised polyester film (23 or 50 micron)
- Transparent, white and in chrome, matt chrome, brushed chrome and gold
- Outstanding dimensional stability and a good ageing behaviour
- Solvent polyacrylate, permanent

Digital Printing Polyester

ORAJET® 3350

For digitally printed labels and decorations

Product benefits include:

- Metallised polyester film (50 micron)
- Chrome
- Solvent polyacrylate, permanent

ORACAL® 301F and ORAJET® 3301F are also perfect for interior applications (see page 7).





Boat Interiors - Glass Decorations

Whether for artistic effect or simply to create privacy, the range of glass decoration films by ORAFOL is the perfect cost-effective alternative to traditional etched glass.

Etched Glass Cal

ORACAL® 8510

Used for decorative designs on windows and glass doors. Available in gold and silver-grey in coarse and fine textures.

Product benefits include:

- Polymeric PVC film (80 micron)
- Coarse and fine texture
- Wet application is recommended
- Available also with *RapidAir*® for extra easy application (8510RA)
- Solvent polyacrylate, permanent



Dusted Glass Cal

ORACAL® 8710

Creates the look of a rough glass surface.

Product benefits include:

- Polymeric PVC film (70 micron)
- Medium glossy surface prevents unwanted light reflections
- Wet application is recommended
- Solvent polyacrylate, permanent

Frosted Glass Cast

ORACAL® 8810

For extra high quality glass decoration of glass partitions and glass doors. Five soft colours available with a sparkling effect.

Product benefits include:

- Cast PVC film (80 micron)
- For a hoar-frost effect
- Solvent polyacrylate, permanent



Digital Printing Film

ORAJET® 3851

For digitally printed glass decorations of glass partitions and glass doors.

Product benefits include:

- Special polymeric PVC film (80 micron)
- Silvergrey with a fine structure
- Wet application is recommended
- Solvent polyacrylate, permanent

Surface Guard Films

Use an ORAGUARD® paint protection film for extra protection of areas exposed to mechanical stress. This will ensure long-term durability of boat surfaces. The films are all highly transparent, glossy, highly UV resistant, and with excellent tear strength.

Stone Guard Films

ORAGUARD® 280 / 280F / 283 / 283F

ORAGUARD® 280 / 280F product benefits include:

- Polyurethane film (200 micron)
- Outstanding transparency and gloss
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

ORAGUARD® 283 / 283F product benefits include:

- Polyurethane film (130 micron)
- Highly transparent
- Glossy
- Solvent polyacrylate, permanent
- Sea water resistance (DIN EN ISO 9227).
Adhered to aluminium; after 100h/35° C no variation

ORAFOL® Cleaning and Care Products

Give your new decor the best possibilities to last

The series of ORAFOL® after care products have been specifically developed for proper surface treatment of the wrapping films from ORAFOL. All the products have been engineered to enable consistent, excellent results. With the ORAFOL® cleaning and care agents you can be sure that you are always working with professional treatment products for your boat. The products are supplied in versions for glossy or matt surfaces.

Product	Type	Item code	Size
Intensive Cleaner	For glossy car wrapping films	359500016	500 ml
Intensive Cleaner	For matt car wrapping films	359500026	500 ml
Long-Lasting Seal	For glossy car wrapping films	359500017	500 ml
Long-Lasting Seal	For matt car wrapping films	359500027	500 ml

Please refer to the full application instructions on www.orafol.com





With the high-quality graphic films from ORAFOL, there are endless application possibilities for exploring creativity and individual designs within the maritime world. Any low energy surfaces on e.g. Jet Skis, kayaks, surfboards and much more can be decorated. Special films are also available where very high-tack is required, or applications are to be done over very rough surfaces such as hammerschlag.

Contact ORAFOL and let us guide you to the best products for your specific application.



Safety at sea - Retroreflective films

Since 1980 our retroreflective materials have been used at sea to improve detection during night-time search and rescue missions. The microprismatic technology lengthens the detection sighting distance compared to traditional reflective materials. The FD tapes comply with SOLAS/IMO requirements and are approved by the European BV as well as the US Coast Guard.

ORALITE® FD 1403

For harsh maritime applications, e.g. sew on PFDs and spray-wear, as well as devices and equipment with rigid substrates such as steel and aluminium.

Product benefits include:

- Retroreflective microprismatic tape
- Silver colour
- Pressure sensitive adhesive or textile backing
- No risk of water penetration
- Designed to withstand continuous immersion in sea water and extreme temperatures
- IMO Res. A.658(16) Type I and II

ORALITE® FD 1404

Flexible marine tape for inflatable devices, inflatable PFDs and immersion suits.

Product benefits include:

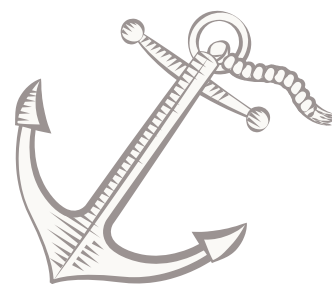
- Retroreflective microprismatic tape
- Flexible
- Silver colour
- Pressure sensitive adhesive backing
- No risk of water penetration
- Designed to withstand continuous immersion in sea water and extreme temperatures
- IMO Res. A.658(16) Type I

ORALITE® VC 310 Marine

Retroreflective film for application to rigid boat surfaces, visible at distances of more than one kilometer.

Product benefits include:

- Retroreflective microprismatic film
- Red, yellow, blue and green
- Pressure sensitive adhesive backing
- Wide widths available (775 mm)



Product Overview – Marine applications

Films	Product	Short name	Front material	Colours / surfaces Gloss (G), Matt (M), Supermatt (SM)	Adhesive	Covering material	Recommended lamination film (where applicable)
CAD/CAM	ORACAL® 951	Premium Cast	Premium cast PVC film 50 micron	139 colours (G) Black/white (M)	Solvent polyacrylate permanent	Special silicone coated paper with excellent weeding properties 137 g/m²	
	ORACAL® 751C	High Performance Cast	High-performance cast PVC film 60 micron	117 colours (G) Black/white (M)	Solvent polyacrylate permanent	Special silicone coated paper with excellent weeding properties 137 g/m²	
	ORACAL® 638	Wall Art	Soft PVC film 80 micron	57 colours (M)	Polyacrylate removable	Silicone coated paper 135 g/m²	
	ORACAL® 383	Ultraleaf Cast	Cast metallised film 85 micron	Chrome Gold (G)	Solvent polyacrylate permanent	Special silicone coated paper 135 g/m²	
	ORACAL® 351	Polyester Film	Metallised polyester film 23/50 micron	Chrome (G+M) Chrome-brushed Rose gold Gloss gold on both sides	Solvent polyacrylate permanent	Special silicone coated paper with excellent weeding properties 137 g/m²	
	ORACAL® 8510	Etched Glass Cal	Special PVC film 80 micron	Gold Silver-grey	Solvent polyacrylate permanent	Special silicone coated paper with excellent weeding properties 137 g/m²	
	ORACAL® 8710	Dusted Glass Cal	Polymer PVC film 70 micron	Translucent grey	Solvent polyacrylate permanent	Special silicone coated paper with excellent weeding properties 137 g/m²	
	ORACAL® 8810	Frosted Glass Cast	Cast PVC film 80 micron	5 colours (sparkling effect)	Solvent polyacrylate permanent	Special polyester film, 100 micron	
Wrapping	ORACAL® 970	Premium Wrapping Cast	High-performance cast PVC film 110 micron	77 colours (G) 21 colours (M) black (SM)	Solvent polyacrylate repositionable permanent	PE coated paper one side siliconised 143 g/m²	
	ORACAL® 970	Premium Shift Effect Cast	High-performance cast PVC film 110 micron	9 colours (G+M)	Solvent polyacrylate repositionable permanent	PE coated paper one side siliconised 143 g/m²	
	ORACAL® 970	Premium Special Effect Cast	High-performance cast PVC film 110 micron	8 colours (G) 2 colours (M)	Solvent polyacrylate repositionable permanent	PE coated paper one side siliconised 143 g/m²	
	ORACAL® 975	Premium Structure Cast	Cast PVC film 150 micron	Carbon: 8 colours, Brushed: 5 colours, Honeycomb: 5 colours, Crocodile: 1 colour, Cocoon: 1 colour	Solvent polyacrylate repositionable permanent	PE coated paper one side siliconised 143 g/m²	
Printing	ORACAL® 352	Print Polyester	Polyester film 23/50 micron	Transparent, Chrome (M+G), Gold (G), Gold on both sides (G), White, Chrome brushed	Solvent polyacrylate permanent	PE coated paper one side siliconised 160 g/m²	
	ORACAL® 301F	Print Polyester	Polyester film 50 micron	White (G) Chrome Chrome brushed	Modified solvent polyacrylate permanent	Polyester film siliconised 100 micron	
	ORALUX® 9300	Luminescent Cast	Three-layered, light yellow, cadmium-free high- performance PVC film, 150 micron	Light yellow (G satin)	Solvent polyacrylate permanent	PE coated paper one side siliconised 143 g/m²	
Digital Printing	ORAJET® 3951	Digital Printing Cast	Premium cast PVC film 55 micron	White (G) Transparent (G)	Solvent polyacrylate repositionable permanent grey or transparent	PE coated paper one side siliconised 143 g/m²	ORAGUARD® 293F / 293 / 290 / 290F
	ORAJET® 3350	Digital Printing Polyester	Polyester film 50 micron	Chrome	Solvent polyacrylate permanent	PE coated paper one side siliconised 143 g/m²	
	ORAJET® 3851	Digital Printing Film	Polymeric PVC film 80 micron	Silvergrey with fine structure (090)	Solvent polyacrylate permanent	Double sided PE coated paper, one side siliconised 143 g/m²	
	ORACAL® 3301F	Digital Printing Polyester	Polyester film 50 micron	Chrome Chrome brushed	Modified solvent polyacrylate, permanent	Polyester film siliconised 100 micron	
	ORAJET® 3930	Digital Printing Luminescent Cast	Three-layered, light yellow, cadmium-free PVC film, 150 micron	Light yellow (G)	Solvent polyacrylate permanent	PE coated paper one side siliconised 143 g/m²	ORAGUARD® 293
Stone Guard	ORAGUARD® 280/280F	Stone Guard Film	Polyurethane film 200 micron	Transparent (G)	Solvent polyacrylate, permanent	280: Siliconised Kraft paper, 137 g/m² 280F: Siliconised polyester film, 100 micron	
	ORAGUARD® 283/283F	Stone Guard Film	Polyurethane film 130 micron	Transparent (G)	Solvent polyacrylate, permanent	283: Siliconised Kraft paper, 137 g/m² 283F: Siliconised polyester film, 100 micron	

① Service lives given here are only valid for vertical application in climate zone 1 in marine environments. For other climate zones and more details see the application instructions. For printing materials, the service lives given are only valid for unprinted films.

Reflective Materials

Product	Short name	Product Approval	Colours / surfaces	Backing	Approval
ORALITE® FD 1403	Imo	IMO resolution A.658(16) Type I and II	Silver (G)	PSA or textile	U.S. Department of Transportation specification USCG 46 CFR, section 164.018 and International Maritime Organisation (IMO) resolution A.658(16) Type I & II.
ORALITE® FD 1404	Imo Flex	IMO resolution A.658(16) Type I	Silver (G)	PSA or textile	U.S. Department of Transportation specification USCG 46 CFR, section 164.018 and International Maritime Organisation (IMO) resolution A.658(16) Type I.
ORALITE® VC 310	Marine	n/a	Red (G), Yellow (G), Blue (G), Green (G)	PSA	n/a

Recommended application tapes	Area of use	Adhesive Power	Minimum appl. Temp.	Service life for marine applications ①	Widths (mm)		Lengths (m)
ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95	Outdoor and indoor use. For full colour wrapping, or single colour decals.	18 N/25 mm	> +8° C	Black/white: 8 years Transparent/coloured: 6 years, Metallic: 4 years selected colours**: 2 years	1260 1000 630 500	378	25 50
ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95	Outdoor and indoor use. For full colour wrapping, or single colour decals.	18 N/25 mm	> +8° C	Black/white: 6 years Transparent/Coloured: 5 years, Metallic: 3 years Gold L, Brilliant Blue L: 1 year	1260 1000 630	500 378	50
ORATAPE® LT95	Indoor use. For short term wall decorations.	6 N/25 mm	> +10° C	2 years	1260 1000 630	500 378	50
ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95	Outdoor and indoor use. Metallised film for decorative labels, name- and technical plates, decorations and symbols. 3 dimensional embossed texture.	16 N/25 mm	> +10° C	5 years	1220		50
ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95	Outdoor and indoor use. Metallised film for decorative labels, name- and technical plates, decorations and symbols. Available as double sided gold for applications that are seen from both sides.	12 N/25 mm	> +8° C	2 years Gold (G): 1 year	1260 1000 630	500 378	50
ORATAPE® HT 95, LT 5, LT 95, MT 52, MT 72, MT 80P, MT 95	Indoor and outdoor decorative design uses on glass, especially shop windows and doors.	18 N/25 mm (on glass) 16 N/25 mm (on acrylic glass)	> +8° C	7 years	1260 1000 630	500 378	50
ORATAPE® HT 95	Developed for decorative glass or mirror design elements, to achieve a translucent etched glass appearance. Great for shop windows, room dividers and glass doors.	18 N/25 mm (on glass) 16 N/25 mm (on acrylic glass)	> +8° C	7 years	1260		50
ORATAPE® HT 95, MT 95, MT 52, MT 72	Long-term indoor and outdoor decorative design; developed for long-term decorative sparkling effects on glass and glass like shop windows and doors.	16 N/25 mm	> +8° C	7 years	1260 1000 630	500 378	25 50
n/a	Outdoor and indoor use. For full colour wrapping, or single colour decals.	18 N/25 mm	> +15° C	Black/white: 10 years Coloured: 8 years Metallic: 4 years selected colours*: 2 years	1520		25 50
n/a	Outdoor and indoor use. For full colour applications. This material comes with a shade shifter effect, meaning that the colour will change depending on viewing angle.	18 N/25 mm	> +15° C	2 years	1520		25 50
n/a	Outdoor and indoor use. For full colour applications. This material has a unique glitter effect.	18 N/25 mm	> +15° C	2 years	1520		25 50
n/a	Outdoor and indoor use. To be used as a tuning film for design details. Comes in seven exciting textures and a range of colours.	22 N/25 mm	> +15° C	Black/white/coloured: 4 years	1520		25 50
ORATAPE® LT 95, MT 95	Outdoor and indoor use. Printing film for decorative labels, name- and technical plates, decorations and symbols.	12 N/25 mm	> +8° C	2 years Gold (G): 1 year	1260 1000	50 + available in sheets 700 x 500 mm, 700 x 1000 mm	
ORATAPE® MT 95	Outdoor and indoor use, as well as doming. Printing film for decorative labels, name- and technical plates, decorations and symbols.	25 N/25 mm	> +8° C	2 years	1260 1000	50 + available in sheets 700 x 500 mm, 700 x 1000 mm	
ORATAPE® MT 95	Indoor use. Typically unprinted markings for danger spots and decorative elements that are visible at night.	18 N/25 mm	> +8° C	5 years	1260 1000	10 25 50	
n/a	Outdoor and indoor.	18 N/25 mm	> +8° C	White: 10 years Transparent: 8 years	1520 1370 1050	760	50
ORATAPE® LT 95, MT 95	Outdoor and indoor use. Digital printing film for decorative labels, name- and technical plates, decorations and symbols.	12 N/25 mm	> +8° C	2 years	1370		25 50
	Digital printing glass decor film, for decorative design of shop windows and glass doors.	18 N/25 mm	> +8° C	7 years	1370		50
ORATAPE® MT 95	Outdoor and indoor use, as well as doming. Digital printing film for decorative labels, name- and technical plates, decorations and symbols.	25 N/25 mm	> +8° C	2 years	1370		25 50
ORATAPE® HT 95, LT 52, LT 95, MT 52, MT 72, MT 80P, MT 95	Outdoor and indoor use. For digitally printed marking signs for danger spots and decorative elements that are visible at night.	18 N/25 mm	> +8° C	5 years	1370		10 25 50
n/a	For application as surface guard films to protect surfaces against mechanical influences.	22 N/25 mm	> +10° C	7 years	1520 1260	25 50	
n/a		18 N/25 mm	> +10° C	7 years	283: 1260, 1520 283F: 1520		25 50

* Copper, Orient brown metallic, Bronze, Pyrite, Graphite metallic, Red gold L metallic and Nacre

** Brilliant blue L, copper, gold, metallic, bronze, pale gold, pyrite, redgold L, foliage green metallic, steppe green metallic

Area of use	Minimum appl. Temp.	Widths (mm)	Lengths (m)
Reflective material for life rafts, personal flotation devices and spray-wear.	> 15° C	50	50
Flexible reflective marine tape for inflatable devices, inflatable personal flotation devices and immersion suits.	> 15° C	50	50
Coloured reflective film visible at distances of more than 1 km. For application onto rigid surfaces, e.g. bouys or boats.	> 15° C	775	45,7



Engineered to Achieve Perfection™

Marine applications

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Find out more about our products at:
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