

Description

Special transparent PVC film with a high level of UV protection and a raised non-skid textured surface.

Release Paper

Silicone coated paper, white, 90 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

With its high skid resistance and its low abrasion, this product is especially suitable for the protection of floor graphics in indoor applications. It meets the coefficient of sliding friction for sports floors required by the DIN V 18032-2.

Technical Data

Thickness* (without paper and adhesive)	120 micron
Temperature resistance***	Adhered to aluminium, -40° C to +80° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, resistant to water, cleaning agents, alcohol and aliphatic solvents
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 130% Across: min. 150%
System skid resistance class (DIN 51130)	R 10
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	3 months

* average ** in original packaging, at 20°C and 50% relative humidity

*** normal climate of Central Europe

Note

Due to the diversity of prints and printing techniques, the user should test the suitability of ORAGUARD[®] laminating films for the specific print purpose, prior to use. Furthermore the application information published by ORAFOL must be followed.

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ORAGUARD[®] 270

Stone Guard Film

Technical
Datasheet
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Description

Polymeric PVC film with excellent UV-resistance, available in a transparent glossy finish.

Release Paper

Kraft paper, siliconised on one side, 137 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of sensitive surfaces against mechanical forces in interior and exterior applications. Specially designed for the protection of vehicle body parts such as front and rear bumpers, side skirts etc. against stone chipping. Recommended for bonding to even and slightly curved surfaces.

Technical Data

Thickness* (without protective paper and adhesive)	150 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,3 mm max.
Temperature resistance	adhered to aluminium, -40° C to +110° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Fire behaviour (DIN 75200)	Adhered to steel, self-extinguishing
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	20 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 22 MPa Across: min. 25 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 150% Across: min. 180%
Shelf life**	2 years
Application temperature	> +10° C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	5 years

* average ** in original packaging, at 20°C and 50% relative humidity

Note

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Furthermore, the application information published by ORAFOL must be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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Description

Polyurethane film with outstanding UV-resistance and excellent tear strength. Highly transparent glossy finished surface.

Release Paper

Kraft paper, siliconised on one side, 137 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of sensitive surfaces against particularly strong mechanical forces in interior and exterior applications. Specially designed for the protection of front and rear bumpers and side skirts from stone chipping. Recommended for bonding to even and slightly curved surfaces.

Technical Data

Thickness* (without protective paper and adhesive)	200 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,2 mm max.
Temperature resistance***	Adhered to aluminium, -40° C to +100° C, no variation
Sea water resistance (DIN 50021)	Adhered to aluminium, after 100 h/23° C no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	22 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 34 MPa Across: min. 34 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 550% Across: min. 550%
Shelf life**	2 years
Application temperature	> +10° C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	7 years

* average ** in original packaging, at 20°C and 50% relative humidity

*** normal climate of Central Europe

Note

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Furthermore, the application information published by ORAFOL must be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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Description

Polyurethane film with outstanding UV-resistance and excellent tear strength. Highly transparent glossy finished surface.

Release Paper

Kraft paper, siliconised on one side, 137 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of sensitive surfaces against mechanical forces in interior and exterior applications. Specially designed for the protection of vehicle body parts such as front and rear bumpers, side skirts etc. against stone chipping. Recommended for bonding to even and slightly curved surfaces.

Technical Data

Thickness* (without protective paper and adhesive)	130 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,2 mm max.
Temperature resistance***	Adhered to aluminium, -40° C to +100° C, no variation
Sea water resistance (DIN 50021)	Adhered to aluminium, after 100 h/23° C no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	18 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 34 MPa Across: min. 34 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 550% Across: min. 550%
Shelf life**	2 years
Application temperature	> +10° C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	7 years

* average ** in original packaging, at 20°C and 50% relative humidity

*** normal climate of Central Europe

Note

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Furthermore, the application information published by ORAFOL must be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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Description

Premium Cast PVC film with a glossy or matt surface and the highest level of UV protection.

Release Paper

Silicone paper, white, 90 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of digitally printed large format pictures in indoor and outdoor applications. ORAGUARD® 290 is recommended for vehicle lettering or car wrapping when used in combination with the corresponding ORAFOL digital printing film.

Technical Data

Thickness* (without protective paper and adhesive)	50 micron
Temperature resistance	Adhered to aluminium, -50° C to +110° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, resistant to water, cleaning agents, alcohol and aliphatic solvents
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 120% Across: min. 120%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (normal climate of central Europe)	8 years

* average ** in original packaging, at 20°C and 50% relative humidity

Note

Due to the diversity of prints and printing techniques, the user should test the suitability of ORAGUARD® laminating films for the specific print purpose, prior to use. Furthermore the application information published by ORAFOL must be followed.

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Description

Premium Cast transparent PVC film, with a glossy or matt surface and the highest level of UV protection.

Release Paper

Polyester film, siliconised on one side, 36 micron

Adhesive

Solvent polyacrylate, permanent

Area of use

For the protection of digitally printed large format pictures in indoor and outdoor application. ORAGUARD® 290F is recommended for vehicle lettering or car wrapping and should be used in combination with the corresponding ORAFOL digital printing film.

Technical Data

Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,2 mm max.
Temperature resistance	Adhered to aluminium, -50° C to +110° C, no variation
Sea water resistance (DIN 50021)	Adhered to aluminium, after 100 h/23° C no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 120% Across: min. 120%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (normal climate of central Europe climate)	8 years

* average ** in original packaging, at 20°C and 50% relative humidity

Note

Due to the diversity of prints and printing techniques, the user should test the suitability of ORAGUARD® laminating films for the specific print purpose, prior to use. Furthermore the application information published by ORAFOL must be followed.

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Description

Ultra-flexible transparent Premium Cast PVC film with the highest level of UV protection. Glossy or matt surface.

Release Paper

Silicone coated paper, white, 90 g/m²

Adhesive

Solvent polyacrylate, permanent

Area of use

For the indoor and outdoor protection of large format digital prints. The material is recommended for car wrapping, especially to rivets and corrugations because of its very good conformability, in combination with ORAJET® 3951.

Technical Data

Thickness* (without paper and adhesive)	30 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,1 mm max.
Temperature resistance***	Adhered to aluminium, -50° C to +110° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 120% Across: min. 120%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (normal climate of central Europe)	8 years

* average ** in original packaging, at 20°C and 50% relative humidity *** normal climate of Central Europe

Note

Due to the diversity of prints and printing techniques, the user should test the suitability of ORAGUARD® laminating films for the specific print purpose, prior to use. Furthermore the application information published by ORAFOL must be followed.

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Description

Ultra-flexible transparent Premium Cast PVC film with the highest level of UV protection. Glossy surface.

Release Paper

Polyester film, siliconised on one side, 36 micron

Adhesive

Solvent polyacrylate, permanent

Area of use

For indoor and outdoor protection of large format digital prints. The material is recommended for car wrapping, especially to rivets and corrugations because of its very good conformability, in combination with ORAJET® 3951.

Technical Data

Thickness* (without paper and adhesive)	30 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, shrinkage 0,1 mm max.
Temperature resistance***	Adhered to aluminium, -50° C to +110° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 120% Across: min. 120%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (normal climate of central Europe)	8 years

* average ** in original packaging, at 20°C and 50% relative humidity *** normal climate of Central Europe

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Description

Premium Cast PVC film with a glossy surface, highest level of UV protection and optimal hardness. Specially developed for the lamination of ORAJET[®] Window Graphics Films.

Release Paper

Polyester film, siliconised on one side, 36 micron

Adhesive

Solvent polyacrylate, permanent

Area of use

Specially developed for the protection of printed ORAJET[®] Window Graphics Films. This laminating film with its optimal hardness covers the perforated film so that no humidity, dust or other contaminants can penetrate the perforation of the film.

Certificates

General Type Approval (ABG) acc. to § 22a StVZO, Federal German Road Traffic Licensing Order, when combined with one of the ORAJET[®] Window Graphics Films.

Technical Data

Thickness* (without paper and adhesive)	70 micron
Temperature resistance	Adhered to aluminium, -50° C to +110° C, no variation
Resistance to solvents and chemicals	At room temperature, 72h after adhesion to aluminium, resistant to water, cleaning agents, alcohol and aliphatic solvents
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	12 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: min. 19 MPa Across: min. 19 MPa
Elongation at break (DIN EN ISO 527)	Along: min. 120% Across: min. 120%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application under vertical outdoor exposure (normal climate of central Europe)	8 years

* average ** in original packaging, at 20°C and 50% relative humidity *** normal climate of Central Europe

Note

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