

ORAGUARD® HELIOSILVER 40 INT.

Reflective Solar Protection Film

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Short description

ORAGUARD® HelioSilver solar control films enable efficient retrofitting of glass surfaces. Based on advanced aluminum sputtering technology, these premium films combine a striking mirror finish with excellent solar energy reflection and significantly reduce heat build-up in buildings. ORAGUARD® HelioSilver 40 int is a highly reflective solar control film designed for interior installation. Due to its very high reflection of solar radiation, heat gain into interior spaces is minimized, and the heating of the glazing is significantly reduced. The mirror-like appearance also provides effective glare and privacy protection. Ideal for glass surfaces exposed to intense sunlight in office, residential, and commercial buildings.

Front material

PET film, 0.05 mm

Liner

PET film, single-side silicone coated, 0 mm

Adhesive

Solvent-polyacrylate, permanent, Transparent, 0.007 mm

Technical properties

RESISTANCE

Durability	12 Year(s)	Indoors, when properly installed, maintained, and used Vertical Application
Shelf Life	3 Year(s)	Vertical Application
Temperature resistance	Minimum temperature -40 °C Maximum temperature 85 °C	

ADHESIVE PROPERTIES

PROCESSING

Suitable substrate	Glass
Application temperature	Minimum temperature 10 °C Maximum temperature 30 °C
Proposed application technology	Wet application

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Technical specifications of the solar control film in accordance with EN 410:2011¹

ORAGUARD® HelioSilver 40 INT	Single glazing 4 mm clear glass		Double glazing 4/12/4 mm clear glass	
	No Film	With HelioSilver 40 INT	No Film	With HelioSilver 40 INT
Visible Light Transmitted [%]	91	45	83	42
Visible Light Reflected interior [%]	8	31	15	-
Visible Light Reflected exterior [%]	8	29	15	32
UV Block (280-380 nm) [%]	28	99	42	99
Total Solar Energy Reflected ² [%]	8	29	14	30
Total Solar Energy Transmitted ² [%]	87	34	77	31
Total Solar Energy Absorbed ² [%]	5	37	10	39
Glare Reduction [%]	0	0.50	0	0.49
Shading Coefficient [-]	1.00	0.49	1.00	0.67
Infrared energy rejection (IRER) ⁴ (780-2500 nm) [%]	13	-	22	-
G-Value (SHGC) ⁵ [-]	0.88	0.43	0.80	0.58
Total Solar Energy Rejection (TSER) ^{2,8} [%]	12	57	20	42
Color Rendering Index ⁷ [-]	99	91	99	90

¹ Performance values were determined based on measurements conducted at Fraunhofer ISE, accredited according to ISO 17025:2015. Optical properties were calculated according to EN 410:2011 using the Optics 6.0 software from LBNL. All values are based on application to 1 mm clear glass and may be subject to

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minor variations due to standard manufacturing tolerances.

² Calculated from transmission, reflection and absorption

³ Korrigierte Emissivität gemäß EN 12898:2019

⁴ Nach ISO 9050:2003

⁵ Solar Heat Gain Coefficient

⁷ In Transmission gemäß EN 410:2011

⁸ TSER (Total Solar Energy Rejection), basierend auf dem g-Wert gemäß EN 410:2011

PRODUCT NOTE

The surface to be covered must be free of dust, grease, or other contaminants that could impair the material's adhesive strength. Freshly painted surfaces must have been allowed to dry or fully cure for at least three weeks.

IMPORTANT NOTES

All ORAGUARD® products undergo rigorous quality control throughout the entire manufacturing process. We ensure that the products are delivered in standard commercial quality and free from manufacturing defects. The traceability of our products in accordance with ISO 9001 is ensured by the roll number. The information published regarding ORAGUARD® products is based on research findings that the company considers reliable but does not constitute a guarantee. Due to the wide range of possible applications for ORAGUARD® products and the ongoing development of new applications, it is the buyer's responsibility to thoroughly verify the suitability and performance of the product for the intended use. Furthermore, the application instructions issued by ORAFOL must be followed. The buyer assumes all risks arising from the use of these products. All information is subject to change without notice.