

Product Description

This high-performance interior film offers state-of-the-art solar protection with exceptional visible light transmission and minimal absorption. It ensures high infrared rejection, nearly 100% UV blocking, and a color-neutral appearance. Ideal for any type of glazing, it reduces heat buildup and energy costs significantly without altering the natural daylight or building aesthetics.

Performance Data for different Window Types according to EN 410:2011¹

ORAGUARD® HelioShield 75 INT	Single glazing 4 mm clear glass		Double glazing 4/12/4 mm clear glass	
	No Film	With HelioShield 75 INT	No Film	With HelioShield 75 INT
Visible Light Transmitted [%]	91	71	83	65
Visible Light Reflected interior [%]	8	8	–	–
Visible Light Reflected exterior [%]	8	9	–	–
UV Block (280-380 nm) [%]	28	99.5	42	99.6
Total Solar Energy Reflected ² [%]	8	28	14	29
Total Solar Energy Transmitted ² [%]	87	41	77	37
Total Solar Energy Absorbed ² [%]	5	31	10	34
Glare Reduction [%]	–	21	–	21
Shading Coefficient [-]	1.00	0.54	1.00	0.67
Emissivity ³ [-]	0.84	0.56	0.84	0.56
Infrared Energy Rejection (IRER) ⁴ (780-2500 nm) [%]	13	79	22	70
G-Value (SHGC) ⁵ [-]	0.88	0.47	0.80	0.54
Total Solar Energy Rejection (TSER) ^{2,6} [%]	12	53	20	46
Color Rendering Index ⁷ [-]	99	97	99	97

¹Performance 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 minor variations due to standard manufacturing tolerances. ²Measured in the range from 280 nm to 2500 nm; ³Corrected emissivity according to EN 12898:2019; ⁴Based on g(NIR) from EN 410:2011; ⁵Solar Heat Gain Coefficient; ⁶TSER based on g from EN 410:2011; ⁷In transmission according to EN 410:2011.

ORAGUARD® HelioShield 75 INT

Solar Protection Films

Preliminary
Technical
Data Sheet
2025/25

Area of use

Designed for architectural applications, ORAGUARD® HelioShield INT is used in commercial and residential buildings to enhance indoor comfort and energy efficiency. Ideal for installation on interior glazing.

Certificate

Reaction to fire performance according to DIN EN 13501-1: B-s1,d0 – Limited combustibility, no or very low smoke production, no flaming droplets/particles.

Product Properties

Thickness * (without release liner and adhesive)	0,0625 mm
Adhesive	Solvent Polyacrylate, transparent
Liner	Silicone-coated transparent polyester
Shelf Life **	2 years
Application Temperature	10°C – 30°C
Recommended Application Method	Wet application technique
Service life by specialist application Under vertical outdoor exposure ***	12 years (interior), with proper installation, maintenance, and use****

* average value; ** in original packaging, at 20° C and 50% relative humidity; *** normal climate of Central Europe; **** for more information, please refer to our Application Guidelines.

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. We recommend wet application of the film. 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.

IMPORTANT NOTICE

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