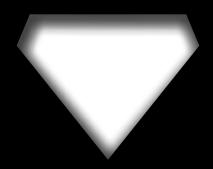


sapphire

LIGHTING

SEE WHAT'S IMPORTANT



IMPROVED TRANSMISSION

By combining the clearest glass with an advanced, absorption-free, thin metal oxide coating, Sapphire™ increases light transmission by 8%. This ensures up to 98% light transmission.

NO REFLECTION

Sapphire TM virtually eliminates glare by reducing reflection to < 1%. This is 8 times less than regular glass.

MANY PROCESSING POSSIBILITIES

Sapphire[™] coated glass can undergo the same processing as ordinary glass*, such as tempering, drilling, edging, polishing, gluing and printing.

ABRASION RESISTANT AND EASY TO CLEAN

Now with a proprietary top coating, SapphireTM can be easily cleaned with any appropriate cleaner*. The top coating makes the SapphireTM product line scratch-resistant for easier processing and use.

HIGH DURABILITY AND LONG LIFETIME OF THE COATING

Durability performance meets ISO standards. Suitable for outdoor use.

^{*} Please refer to Groglass® Handling Guidelines

SAPPHIRE™ BY GROGLASS® FOR LIGHTING APPLICATIONS



SAPPHIRE™ COATING ON GLASS FOR LIGHTING APPLICATIONS PROVIDES THE HIGHEST LIGHT TRANSMISSION TO SAVE ENERGY.

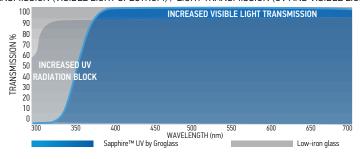
PRODUCT DETAILS

PRODUCT	GLASS SUBSTRATE*	GLASS THICKNESS*, mm	MAXIMUM SIZE, mm	LIGHT Transmission	LIGHT REFLECTION (PER SIDE)
SAPPHIRE AR [™]	Low-iron	2 - 4	2250x3210	~98%	< 0.5%
SAPPHIRE AR UV™	Low-iron	2 - 4	2250x3210	~98%	< 0.5%

^{*}For Borosilicate glass, regular float glass and other thicknesses please contact us at sales@groglass.com

OPTICAL PERFORMANCE AND DATA

LIGHT TRANSMISSION (VISIBLE LIGHT SPECTRUM) / LIGHT TRANSMISSION (UV AND VISIBLE LIGHT SPECTRUM)



DURABILITY



Groglass® declares that Sapphire™ products comply with the essential requirements of the relevant EU health, safety and environmental protection legislation.

- □ Abrasion Test ISO 9211
- ∇ Climate cycling EN 1279-2
- ∇ Coating Adhesion ISO 9211
- □ UV and condensation EN 1096-2
- ▼ Neutral salt spray EN 1096-2

ABOUT US

SapphireTM is manufactured by Groglass® - located in Riga, Latvia. Groglass® delivers anti-reflective glass worldwide - to more than 40 countries. SapphireTM is used for a wide range of applications - high-end electronic displays, lighting fixtures, picture framing and luxury architectural solutions.

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