



GLASMA 700 STUDIO

STUDIO ART GLASS

Glasma 700 Studio is lead-free, semi-processed, glass raw materials used in both electrical and gas heated furnaces for creating high-end glass artwork. It is the perfect choice for glass studios with limited possibilities for ventilation or when being situated in a city location. Developed from our popular 705 series, it gives the same crystal clear glass while being free of NO_x gases and emitting significantly fewer gases overall.

Glasma 700 Studio is easy to melt and refine at low temperatures, meaning it easily becomes bubble-free overnight. The glass is long and agile, giving glass blowers the best opportunities and enough time to create the most beautiful glass artwork without any kind of defects.

Glasma 700 Studio is perfectly matched with the Glasma Color System and it can normally be combined with other color systems as well. It is prepared to be suitable for flame polishing without discoloring the glass.

The energy used when melting and refining is the single largest contributor to CO₂ emissions in the glass industry. Pre-melted glass, like nuggets and cullets, must be melted and refined twice. By using Glasma these processes are reduced to be made only once, meaning CO₂ emissions are greatly reduced.

By using Glasma you have full control of your complete process and you do not risk inheriting any bubbles, impurities or cords from an external pre-melting process out of your control. Quality is secured and waste is reduced.

Glasma 700 Studio is available from most of our warehouses in Europe, USA and Asia.

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SPECIFICATIONS OF GLASS PROPERTIES

REV. 2024-05-31

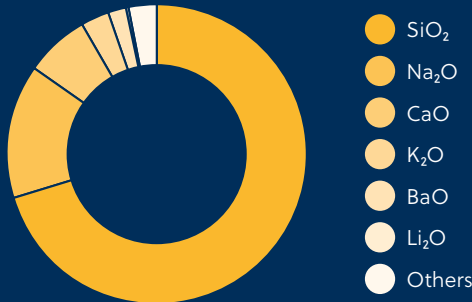
MATERIAL TYPE

Lead-free studio glass, delivered as pelletized glass raw materials.

DELIVERY OPTIONS

- 20 kg (44 lbs) bags (50 bags per pallet)
- 800 kg (1764 lbs) big bags

FINAL GLASS COMPONENTS



THEORETICAL PROPERTIES

Viscosity as log η (dPas)	log $\eta \approx 2$ at 1345 ± 10 °C (2453 ± 20 °F) log $\eta \approx 5$ at 830 ± 10 °C (1526 ± 20 °F)
Transformation temperature (T_g)	log $\eta \approx 13$ at 500 ± 5 °C (932 ± 10 °F)
Thermal expansion (α_{20-300} °C)	$9,8 \times 10^{-6} \pm 0,2$ K ⁻¹ (COE 98 +/-2)
Density	$2,54 \pm 0,01$ kg/dm ³
Refractive index (n_{D20})	$1,520 \pm 0,005$
Recommended melting temperature	1200–1250 °C (2192–2282 °F)
Recommended working temperature	~1100 °C (~2012 °F)
Recommended annealing temperature	510 ± 10 °C (950 ± 20 °F)
Hydrolytic resistance (ISO 719)	2,2 ml 0,1 N HCl/g glass *
Yield by weight	85% **

* The lower the value, the better the resistance.

** 15% vaporizes during melting as mainly CO₂ and water.

Please note that theoretical values only provide a guideline. Each melting process is unique and must be adjusted and optimized before the perfect result can be obtained.

COLORING

Glasma 700 Studio is matched with the Glasma Color System and it can normally be combined with other color systems as well.

STANDARDS

Glasma is certified according to ISO 9001 and ISO 14001.