



GLASMA 705

STUDIO ART GLASS

Glasma 705 is lead-free, semi-processed, glass raw materials used in both electrical and gas heated furnaces when creating high-end glass artwork. It's specially developed to fulfill very high demands from glass artists all over the world. The glass raw materials are pelletized which provides outstanding conditions for very fast melting and excellent refining. The glass is long and agile, making it perfect for glass blowing and glass forming, creating the most beautiful glass artwork.

Glasma 705 is perfectly matched with the Glasma Color System and it can normally be combined with other color systems as well. Glasma products give outstanding advantages, including savings on energy and equipment, crystal clear glass, consistent high quality, improved environment and less administration.

Glasma 705 is available from most of our warehouses in Europe, USA and Asia.

GLASMA 705-A / 705-E

SPECIFICATIONS OF GLASS PROPERTIES

REV. 2024-05-31

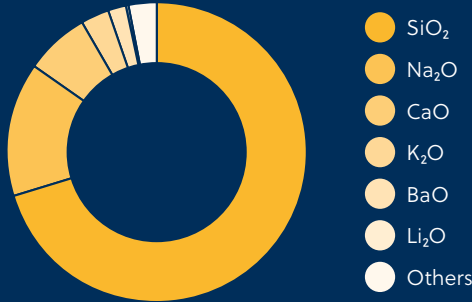
MATERIAL TYPE

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

DELIVERY OPTIONS

- 25 kg (55 lbs) bags (40 bags per pallet)
- 1000 kg (2205 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 705 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.

VERSIONS

Glasma 705 is available as 705-A and 705-E. The 705-E is more suitable for flame polishing.