

Issuer's name/producer:
Issuer's address/Producer:

KAVALIERGLASS, a.s.
Křížová 1018/6, Prague 5
office: Sklářská 359, 285 06 Sázava, Czech Republic

Glass type: Flat soda-lime glass
Purpose of use: Technical and laboratory glass products, household glassware

Chemical properties

Hydrolytic resistance

water at 98 °C	ISO 719	HGB3
water at 121 °C	ISO 720	HGA2
glass grains, test B	Ph. Eur., chap. 3.2.1	HGA2

Mean chemical composition of the glass

SiO ₂	72,350 %
Na ₂ O	14,500 %
CaO	7,040 %
MgO	3,630 %
Al ₂ O ₃	1,440 %
K ₂ O	0,370 %
Fe ₂ O ₃	0,153 %
TiO ₂	0,026 %
MnO	0,005 %
B ₂ O ₃	<0,200 %
Cr ₂ O ₃	<0,005 %

Physical properties

Properties	Values and units	Measurement technique
Thermal shock resistance of sudden temperature changes	$\Delta T = 90 \text{ }^\circ\text{C}$	
Elastic modulus E	72 GPa	Grindo - sonic
Linear expansion coefficient α	$(8,7 \pm 0,3) \times 10^{-6} \text{ K}^{-1}$	Dilatometer
Density ρ	$(2,5 \pm 0,02) \text{ g/ cm}^3$	Helium pycnometer
Vickers hardness HV	5,6 GPa	Durometer
Poisson's Coefficient	0.22	Ultrasonic wave

21.01.2021, Sázava
Date and place

Ing. Kristýna Machová
Project Quality Engineer

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