KAVALIER

TECHNICAL DATA

Issuer´s name/ producer: **KAVALIERGLASS, a.s.**
Issuer´s address/Producer: **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_2O	14,500 %
CaO	7,040 %
MgO	3,630 %
Al_2O_3	1,440 %
K_2O	0,370 %
Fe_2O_3	0,153 %
TiO_2	0,026 %
MnO	0,005 %
B_2O_3	<0,200 %
Cr_2O_3	<0,005 %

21.01.2020, Sázava
Date and place

Ing. Kristýna Machová
Product development

KAVALIERGLASS, a.s.
Křížová 1018/6, 150 00 Praha 5
office: Sklářská 359, 285 06 Sázava
Czech Republic
IČ: 474 68 815
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Physical properties

Properties	Values and units	Measurement technique
Thermal shock resistence of sudden temperature changes	ΔT = 90 °C	
Elastic modulus E	72 GPa	Grindo - sonic
Linear expansion coefficient α	(8,7 ± 0,3) x 10^{-6} K^{-1}	Dilatometer
Density ρ	(2,5 ± 0,02) g/ cm^3	Helium pycnometer
Vickers hardness HV	5,6 GPa	Durometer
Poisson's Coefficient	0.22	Ultrasonic wave

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