

BOROSILICATE GLASS

ROHS & REACH COMPLIANT

Physical properties

DENSITY	2.23 g/cm ³
COMPOSITION	SiO ₂ 81% B ₂ O ₃ 13%
	Na ₂ O + K ₂ O 4% Al ₂ O ₃ 2%

Thermal properties

STRAIN POINT	510°C
ANNEALING POINT	560°C
SOFTENING POINT	825°C
MELTING POINT	1260°C
SHOCK RESISTANCE	300°C
MAX WORKING TEMPERATURE	200 to 300°C

Mechanical properties

HARDNESS (DURETÉ)	6 mohs
POISSON'S RATIO	0.20
EXPANSION	3.3 x 10 ⁻⁶ K ⁻¹
YOUNG'S MODULUS	63 kg/cm ² ou 0.658 GPa
COMPRESSIVE STRENGTH	9327 kg/cm ² ou 3600 bars
TENSILE STRENGTH	832 kg/cm ² ou 142 bars

Chemical properties

ACID RESISTANCE LOSS	0.10 mg/l
ALKALI RESISTANCE LOSS	140 mg/l
WATER RESISTANCE LOSS	0.09 mg/g

Optical properties

REFRACTION INDEX	1.473 nm (586.3nm)
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