Datenblatt | Data sheet

Glass materials

Material	Borsilicate glass	Soda-lime glass	Quartz glass
Hardness Knoop	420 - 520	465 - 585	420 - 520
Density g/cm ³	2,23	2,5	2,2
Break load in traction MPa	1900 - 2100	900 - 100	1050 - 1050
Operating temperature °C	0 - 200	0 - 200	0 - 1000
Available with			
Diameter (mm)	1 - 100	1 - 100	0,3 - 100
Diameter (in)	3/64 - 4	3/64 - 4	1/64 - 4
Precision grade	G10 - G2000	G50 - G2000	G10 - G100
Surface	polished / matt	polished / matt	poliert / matt
Description	High chemical and thermal stability. Electrically insulating, resistant to strong external loads and pressure fluctuations.	Chemically inert. Surfaces are optimally machinable.	Chemically inert. Surfaces are optimally machinable.
Field of application	Special/safety valves, metering pumps. Used in the pharmaceutical sector and photographic equipment.	Special bearings and valves, mixers, low-cost control valves, metering pumps, flow meters, measuring instruments, plastic bearings, optical fiber applications, ink cartridges, bottle caps, centrifugal jets, grinding processes. For art and decoration purposes	Due to the high softening temperature, thermal load capacity and temperature resistance, excellently suited for applications in the high-temperature range: special bearings and valves, mixing units, metering pumps, flow meters, measuring instruments, plastic bearings, applications made of optical fibers, ink cartridges, bottle caps, centrifugal jets, grinding processes, etc.
Resistant to	Excellent chemical resistance to water, most acids, salt solutions, organic solutions and halogens.	Strong alkaline solutions; Almost inert.	Acids and alkalis
Unresistant to	Moderate resistance to alkali solutions		

