Microscope Slides – Data Sheet

As at: 2012

European Technical Centre

Chemical and Physical Properties of Knittel Microscope Slides

Typical composition (% by weight)	
Constituents	**%**
SiO_2	72,3
Al_2O_3	0,5
Fe_2O_3	< 0,02
Na_2O	13,3
CaO	8,8
K_2O	0,4
MgO	4,3

Typical light transmittance (TL) % (according to EN 410 & ISO 9050)	
1,0 mm	91,7

Typical solar direct transmittance (Te) % (according to EN 410)	
1,0 mm	91,6

Thickness tolerances	0,95 – 1,05 mm
Mean refractive index to visible radiation, n	1,5
Density, ρ [kg/m3]	2500
Average coefficient of linear expansion between 20°C and 300°C, α [K–1]	9 x 10–6
Thermal conductivity, λ [W/mK]	1
Young's modulus, E [Pa]	7 x 1010
Poisson's ratio, μ	0,2
Alkaline resistance	Class 2
Acid resistance	Class 3
Hydrolytic resistance	Class 3