Low iron " OPTIWHITE " FLOAT glass
produced by FLACHGLAS AG in
GERMANY, Weiherhammer plant

1. Optical properties

Light transmission	T L (D 65)
Energy transmission	according to Moon – air mass 2
Uv transmission	T U V
Color rendering index	R a
Total energy transmission	g

Nominal Thickness mm	T_L [%]	T_E [%]	T_{UV} [%]	R_a [%]	g [%]
2	91.8 ± 0.5	91.5 ± 0.5	85 ± 3	99.9 ± 0.1	91.6 ± 0.5
3	91.7 ± 0.5	91.3 ± 0.5	83 ± 3	99.9 ± 0.1	91.5 ± 0.5
4	91.6 ± 0.5	91.0 ± 0.5	82 ± 3	99.8 ± 0.1	91.3 ± 0.5
5	91.5 ± 0.5	90.6 ± 0.5	81 ± 3	99.8 ± 0.1	91.0 ± 0.5
6	91.4 ± 0.5	90.3 ± 0.5	79 ± 3	99.8 ± 0.1	90.7 ± 0.5
8	91.2 ± 0.5	89.6 ± 0.5	76 ± 3	99.7 ± 0.1	90.2 ± 0.5
10	91.0 ± 0.5	88.9 ± 0.5	74 ± 3	99.6 ± 0.1	89.7 ± 0.5

2. Chemical composition (approx.) – by weight

Sodium Content ← SiO_2 72.7 %
Na_2O 13.0 %
CaO 8.8 %
MgO 4.3 %
Al_2O_3 0.6 %
K_2O 0.4 %
SO_3 0.2 %
Fe_2O_3 0.02 %

Physical and chemical properties

(they correspond to a large extent with those of ordinary float glass)

Density	:	2.5×10^{3} kg / m 3
Young's modulus of elasticity	:	7.3×10^{4} N / mm 2
Poisson 's ratio	:	0.23
Coefficient of linear thermal expansion	:	9×10^{-6} K^{-1}
Vickers hardness	:	5×10^{3} N / mm 2
Compressive strength	:	700 - 900 N / mm 2
Bending strength	:	30 N / mm 2
Alkaline resistance	:	alkaline class 1 - 2
Acid resistance	:	acid class 1
Hydrolytic resistance	:	hydrolytic class 4
Refractive index	:	1 . 52

PRODUKTION WEINHEIM/HAMMER

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