FLOAT GLASS, clear 1000

Technical Data Sheet

Float glass is soda-lime glass, made by floating molten glass on a bed of molten tin.This method gives the sheet uniform thickness and very flat, smooth surfaces. It is usually color neutral and highly transparent, but tints are possible, too. Float glass is characterized by great surface hardness, but is very fragile and UV transmittant.
Tempered safety glass and laminated safety glass are special forms of float glass that provide enhanced mechanical and chemical resistance.

Applications: mainly used for all sorts of transparent covers, glazing, or as windows for electronic displays.

Delivery: flat sheets in thicknesses from 0.2 mm up, cut to size, also machined (drilled, seamed edges, dubbed corners), with silk screen print or adhesive. Thicknesses from 3.0 mm also available chemically tempered or heat strengthened.

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
PHYSICAL			
Density		kg/m²	2.5
Hardness (Vickers)	DIN 1249-10	kN/mm²	4.93 +/- 0.34
OPTICAL			
Transmission (for 3.0 mm thickness)	DIN EN 410	%	approx. 90
Refractive Index	DIN EN 572-1		1.52
THERMAL			
Softening Temperature	DIN 1249-10	℃	approx. 600
Maximum Continuous Temperature		℃	approx. 80
Coefficient of Linear Expansion	DIN 1249-10	1/K	9×10^{-6}
Coefficient of Thermal Conductivity	DIN 4701	W/mK	0,8
Coefficient of Heat Transmission		W/m²K	5,8
MECHANICAL			
Impact Strength	DIN 1249-10	N/mm²	700-900
Rupture Strength (flexural), calculated value		N/mm²	approx. 30
E-Module	DIN EN 572-1	kN/mm²	70
CHEMICAL			
Water - class 3	= resistant		
Acid - class 1	= acid resistant		
Base - class 1-2	= slightly base soluble		

** Values provided cannot be guaranteed in your application due to circumstances beyond our control.*

sudetenstrasse 53 tel +49-8171-3469-0 internet: www.go-ttv.com
d-82538 geretsried fax +49-8171-3469-29 email: info@go-ttv.com

Update: 10.07.2009