

# DATA SHEET

# Float Glass

## TRANSMISSION DATA

Product	Light		Solar Radiant Heat				Shading Coefficient			U Value (W/m2K)
	Transmittance	Reflective	Direct Transmission	Reflective	Absorptance	Total Transmission	Short Wavelength	Long wavelength	Total	
2mm	0.90	0.08	0.86	0.08	0.06	0.88	0.99	0.02	1.01	5.9
3mm	0.90	0.08	0.84	0.08	0.08	0.87	0.97	0.03	1.00	5.8
4mm	0.89	0.08	0.83	0.07	0.10	0.85	0.95	0.03	0.98	5.8
5mm	0.89	0.08	0.81	0.07	0.12	0.84	0.93	0.04	0.97	5.8
6mm	0.88	0.08	0.79	0.07	0.14	0.82	0.91	0.03	0.94	5.7
8mm	0.88	0.08	0.76	0.07	0.17	0.80	0.87	0.05	0.92	5.7
10mm	0.87	0.08	0.72	0.07	0.21	0.78	0.83	0.06	0.89	5.6
12mm	0.85	0.08	0.68	0.07	0.25	0.75	0.78	0.08	0.86	5.5
15mm	0.84	0.08	0.66	0.06	0.28	0.73	0.76	0.08	0.84	5.5
19mm	0.82	0.08	0.60	0.06	0.34	0.68	0.69	0.09	0.78	5.3

## TECHNICAL DATA

<b>PHYSICAL</b>	Density		kg/m <sup>2</sup> 2.5	2.5
	Hardness (Vickers)	DIN 1249-10	kN/mm <sup>2</sup>	4.93 +/- 0.34
<b>OPTICAL</b>	Transmission (for 3.0 mm thickness)	DIN EN 410	%	approx. 90
	Refractive Index	DIN EN 572-1		1.52
<b>THERMAL</b>	Softening Temperature	DIN 1249-10	°C	approx. 600
	Maximum Continuous Temperature		°C	approx. 80
	Coefficient of Linear Expansion	DIN 1249-10	1/K	9 x 10 <sup>-6</sup>
	Coefficient of Thermal Conductivity	DIN 4701	W/mK	0,8
	Coefficient of Heat Transmission		W/m <sup>2</sup>	5,8
<b>MECHANICAL</b>	Impact Strength	DIN 1249-10	N/mm <sup>2</sup>	700-900
	Rupture Strength (flexural), calculated value		N/mm <sup>2</sup>	approx. 30
	E-Module	DIN EN 572-1	kN/mm <sup>2</sup>	70
<b>CHEMICAL</b>	Water - class 3 = resistant	= resistant		
	Acid - class 1	= acid resistant		
	Base - class 1-2	= slightly base soluble		