



Pilkington Microfloat™
Putting performance
under the microscope.



Pilkington Microfloat™

Ultra-thin float glass made to exacting standards, suitable for a variety of applications.

Pilkington Microfloat™ is a high-grade float glass made to precise standards. Its excellent plane and low tolerances of thickness make it ideal for a wide range of uses, primarily microscope slides but also cosmetic mirrors, chromatographic plates, photomasks, automotive and technical glass, dependent on its thickness.

The glass is produced as a normal float glass. A silane coating applied during manufacture to improve its wettability, to give an even film particularly when used as microscope slides, is available on request.



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Chemical and physical properties of Pilkington **Microfloat™**

Typical composition:					
% by Weight	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	RO(CaO+MgO)	R ₂ O(Na ₂ O+K ₂ O)
	72-73%	0.5-0.7%	0.10-0.130%	12.7-13.1%	13.2-13.6%
Transmission				Poissons ratio	0.224
T_L (Auge* D65) for glass thicknesses of	1mm	T _L = 91.2% ± 1%		Strain point	Logη = 14.5; T ~ 530°C
	1.2mm	T _L = 91.1% ± 1%		Transformation temperature	Logη = 12.3; T ~ 567°C
	1.6mm	T _L = 90.8% ± 1%		Annealing point	Logη = 13.0; T ~ 557°C
Refractive index	(Nad) = 1.52			Dilatometric start of softening	Logη = 10.3; T ~ 598°C
Density	2490 kg/m ³			Softening point (η = Viscosity in Pa.s)	Logη = 7.6; T ~ 726°C
Coefficient of thermal expansion	α = 9 x 10 ⁻⁶ K ⁻¹ @ 50-350°C			Alkaline resistance (ISO 695)	class 2
Thermal conductivity	0.9 W/mK @ 248°C			Acid resistance (ISO 8424)	class 3
	1.6 W/mK @ 463°C			Hydrolytic resistance (ISO 719)	class 3
Young's modulus	73 GN/m ²				

Benefits

- High-grade thin float glass offering excellent plane and low thickness tolerances
- Silane coated for improved wettability, ensuring an even film
- Excellent optical transmission
- Free of fluorescent reflections
- Resistant to chemicals
- Extended shelf life
- Available in several thicknesses:
 - 0.95 - 1.05mm (microscope slides)
 - 1.0 - 1.2mm (microscope slides, cosmetic mirrors)
 - 1.2 - 1.4mm (chromatographic plates, cosmetic mirrors, technical glass)
 - 1.5 - 1.7mm (photomasks, automotive, technical glass)
- Other thicknesses may be available on request
- Glass is pre-cut to your specification



Please note: we use a plastic powder as interleaving material, which can easily be washed off.

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Distributor:



PILKINGTON

Pilkington Building Products - Europe
 Prescot Road St Helens WA10 3TT
 Tel 01744 28882 Fax 01744 692444
www.pilkington.com

Technical Advisory Service
 Tel +44 (0)1744 692000 (UK)
 E-mail: pilkington@respond.uk.com