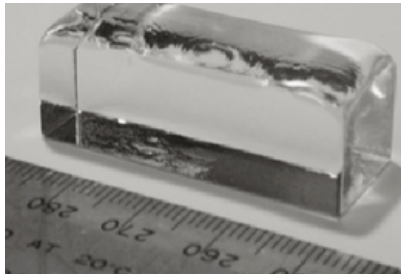


ZBLAN GLASS

Optofab Adelaide can produce ZBLAN fluoride glass in a high-purity bulk form that is suited to a range of applications including waveguide use. Undoped or rare-earth doped ZBLAN glass blocks of up to 20mL volume (100g) can be manufactured in a wide range of shapes. Rare earth ion dopants include: Erbium, Holmium and Thulium and more.



ZBLAN is a heavy metal fluoride glass, which shows a wide transmission range of 0.3-5µm and high emission efficiency for rare earth ions. The glasses are melted under a controlled atmosphere, which ensures high purity and low water content.

COMPOSITION $53\text{ZrF}_4\text{-}20\text{BaF}_2\text{-}4\text{LaF}_3\text{-}3\text{AlF}_3\text{-}20\text{NaF}$

PROPERTIES		ZBLAN GLASS
Optical	Transmission range	0.30~5.0µm
	Refractive index (n_d)	1.51
Thermal	Glass transition temperature (tg)	265°C
	Thermal expansion coefficient	$200 \times 10^{-7} \text{ K}^{-1}$
Physical	Density	4.50 g/cm^3



HIGH QUALITY OPTICAL FIBRE

Optofab Adelaide has the ability to transform the manufactured glass into high-quality optical fibres through extrusion and drawing processes. The unique properties of ZBLAN optical fibres, including their wide transmission range, low loss, and high power-handling capabilities, make them valuable for a variety of applications such as spectroscopy and sensing, laser power delivery and fibre lasers & amplifiers.

www.adelaide.edu.au/optofab

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