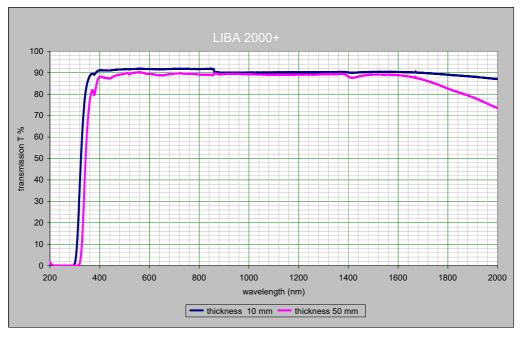


Glass Roc LIBA 2000 RRECIO

Glass Rods LIBA 2000+

Glass Rods LIBA with optical properties are used by leading international lens manufacturers. Our optical rods find their use mainly in the automotive industry.

		height in mm	quantity in bundle	weight of rod in kg
V 28 Extra Thin	(28.4) h	22	15	1.3
V 28 THIN	← (32)	23 24 25	14 13 12	1.4 1.5 1.7
V 28 MEDIUM	28	27 30 32	11 10 9	1.8 2.0 2.2
V 35 THICK	$ \begin{array}{c} (38) \\ \hline & 34 \end{array} $	27 31 35	8 7 6	2.5 2.9 3.3
V 42 EXTRA THICK	(49)	37 41 46 51	5 4.5 4 3.5	4.0 4.4 5.0 6.0
"50" SUPER	(49) 48	46	3	6.6





Glass Rods LIBA 2000+

Glass quality

Abbe's number	vd=58.852, ve=58.627	
Hydrolytic class	HGB 3	
Alkaline class according to ČSN ISO 695	A2	
Acidic class according to DIN 12116	1.	

Packaging

Standard length of rod	1120 ± 10 mm
Standard package weight (one bundle)	20 kg
Transport package: - bundles in cases on wooden pallet (jewelry quality) - free loaded in one case on wooden pallet (optical quality)	600 kg ntto, 650 kg btto 700 kg ntto, 750 kg btto

Informative composition in %

SiO ₂	68	CaO	6
Na ₂ O	11	BaO	4
K ₂ O	6	ZnO	3

Physical and chemical characteristics

Specific gravity	ρ	2 580 + 20 kg/m ³	
Coefficient of expansion	α	$9.4 \pm 0.4 \cdot 10^{-6} \mathrm{K}^{-1}$	
Index of refraction	$n_{_{\mathrm{D}}}$	1.5200 + 0.0010	
Softening point (10 ^{7.65} dPa s)	t _L	686 ± 10 °C	
Transformation point (10 ^{13.3} dPa s)	t _g	504 ± 10 °C	
Deformation point (10 ¹¹ dPa s)	t _d	568 ± 10 °C	



PRECIOSA Traditional Czech Glass

A member of the Preciosa Group

Preciosa Group is a global leader in products manufactured from crystal. From the world famous Czech Beads and Crystal Components used in fashion industry, to tailor made Lighting projects for luxury hotels, royal palaces and yachts, the true craftsmanship of crystal production has been present in Bohemia since 16th century.