

j-Plasil for Rods and Optical Parts

j-Plasil Rods and optical parts are manufactured by using the j-plasma Plasma Based Deposition (PBD) process. j-Plasil glasses are high-performance glasses for a high transmission from UV to IR range especially optimized for the near IR range. Because of their ideal adjusted OH-content they show excellent features in this spectral range with simultaneous reduction of unintended glass defects.

Ordering Information

To order j-plasma products please call, fax or email us and specify the following parameters:

Rod Type:	j-Plasil
Diameter:	mm
Length:	mm
Other:	

All j-plasma products are subject to j-plasma's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specifications without notice.

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ISO DIN 16016

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Officially registered facility
according to EWG No. 1221/2009



For further information about
j-plasma products and services,
please contact us:

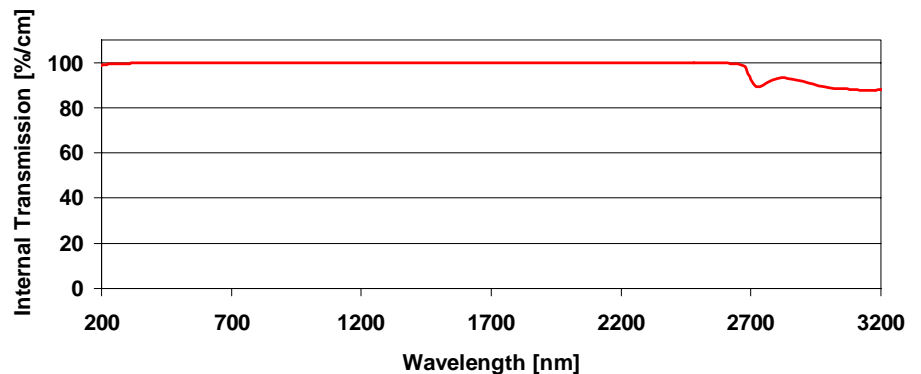
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Features

- Operating range: UV, VIS, NIR and IR, optimized for the near NIR range
- Undoped synthetical silica glass with high homogeneity
- Low OH-content

Typical transmission of j-Plasil Rods: (10 mm path length)



Rod Specification

	Spec. Values	Unit
Diameter	25 - 80 ¹	mm
Tolerance of diameter within a rod	± 0.2	mm/m
Non-circularity	≤ 1.5	%
Conicity of a rod	± 0.2	mm/m
Rod length	200 - 800	mm
Bow	< 1.0	mm/m
Surface	fire polished	
Appearance:	dust free and flawless	

¹Optional diameter up to 120 mm

Optical characteristics

Properties	Values	Unit
Bubbles and inclusions ISO 10110-3	1/1 x 0,063	
Striae class ISO 10110-4	2 / -, 5	
Homogeneities over CA 90 %	PV ≤ 40	ppm
Residual stress birefringence over CA 90 %	≤ 5	nm/cm
OH-content	≤ 30	ppm
Refractive indices ¹ n (at 20 °C, nitrogen atmosphere, 1013 hPa)	Wavelength (nm)	
	266	1,49990
	308	1,48581
	365	1,47460
	n _e 546	1,46016
	n _o 587	1,45854
	633	1,45700
	1064	1,44970
1319	1,44678	

¹Tolerances of refractive indices: ± 2.0 · 10⁻⁵