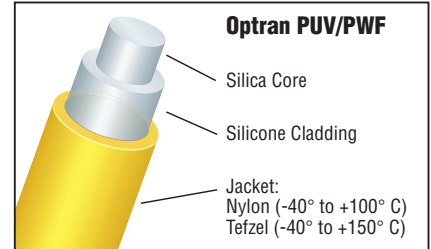


CeramOptec®

Innovative Fiber Optics...Every Step of the Way™



CeramOptec's plastic-clad silica fibers feature high transmission values for UV through NIR wavelengths and are ideal for applications from remote illumination and spectroscopy to high power laser delivery. With better UV and IR transmission than hard clad silica fibers, Optran PUV and PWF fibers are fully biocompatible, radiation resistant, and a cost effective alternative to all silica fiber. We offer a choice of several jacket types and sizes—as well as custom-designed products and sizes to meet your specifications.

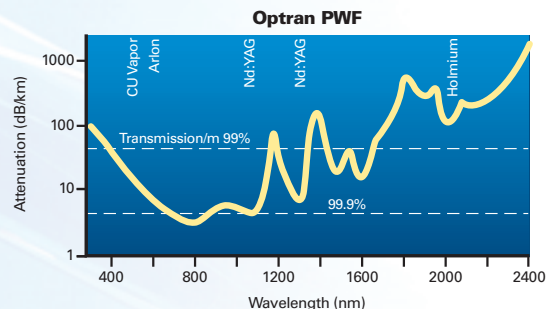
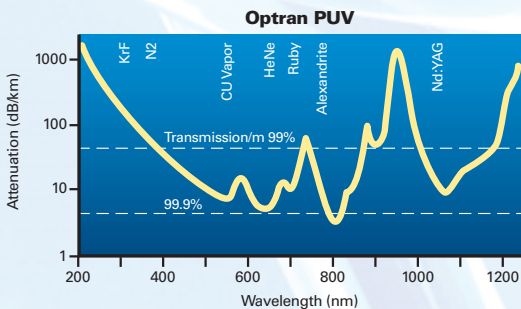


Features

- High numerical aperture
- Cost effective alternative to all silica fiber
- Better UV and IR transmission than hard clad silica fibers
- Large sizes available—up to 2000 μm
- Biocompatible materials
- Sterilizable by ETO and other methods
- Radiation resistant
- Manufactured at GMP and ISO 9001 compliant facility
- Specialty coatings available

Applications

- Medical
 - Laser delivery
 - Photodynamic therapy
- Industrial / Scientific
 - Spectroscopy
 - Thomson scattering
 - Remote spectroscopy
 - Sensors
- Medical diagnostics
- Laser delivery
- Laser etching, marking, cutting, welding, and soldering
- Nuclear plasma diagnostics
- UV photolithography



Properties

- Step index profile
- Pure silica core
- Numerical aperture:
 - 0.40 (2 meters)
 - 0.30 (greater than 40 meters)
- Broad spectral range: 200 – 2400 nm
- Standard proof test: 70 kpsi
- Bend radius:
 - Momentary – 100 x core radius
 - Long term – 300 x core radius
- Laser damage threshold:
 - Nd: YAG 1.3 kW/mm² CW at 1060 nm

Nylon

Product Code	Ø Core (µm) ± 2% Fused Silica	Ø Clad (µm) ± 2% Silicone	Ø Jacket (µm) ± 5%
200 N	200	300	370
300 N	300	400	500
400 N	400	500	600
600 N	600	700	800
800 N	800	900	1000
1000 N	1000	1100	1200
1500 N	1500	1650	1800
2000 N	2000	2150	2300

Prefix product code with “PUV” or “PWF” according to your wavelength. Replace “N” with “B” for black nylon.

Tefzel®

Product Code	Ø Core (µm) ± 2% Fused Silica	Ø Clad (µm) ± 2% Silicone	Ø Jacket (µm) ± 5%
200 T	200	300	450
300 T	300	440	660
400 T	400	550	850
600 T	600	750	1010
800 T	800	950	1400
1000 T	1000	1150	1650
1500T	1500	1650	1800
2000T	2000	2150	2300

Prefix product code with “PUV” or “PWF” according to wavelength.

Bundled Fibers

Product Code	Ø Core (µm) ± 2% Fused Silica	Ø Clad (µm) ± 2% Silicone	Ø Jacket (µm) ± 5%	Jacket Material
210 A	210	230	270	Acrylate Jacket
200 K	200	230	—	No Jacket

Prefix product code with “PUV” or “PWF” according to wavelength.

Notes:

Custom sizes are available upon request.

NA is measured at the 95% intensity angle.

CeramOptec strives to ensure the accuracy of all information provided; however, we imply no warranties and disclaim any liability in connection with the use of this information.

Tefzel® is a registered DuPont product.

Please contact our Sales Engineering representatives:

North America

CeramOptec Industries, Inc.
515A Shaker Road; East Longmeadow, MA 01028
Tel: 800-934-2377
413-525-0600
Fax: 413-525-1112
Email: salesengineering@ceramoptec.com

West Coast Office

Tel: 408-362-0100
Fax: 408-629-1657
Email: salesengineering@ceramoptec.com

Europe

CeramOptec GmbH
Siemensstr. 44; 53121 Bonn, Germany
Tel: +49 (0) 228-979670
Fax: +49 (0) 228-9796799
Email: info@ceramoptec.de

Innovative Fiber Optics...Every Step of the Way

CeramOptec was founded in 1986 and today is a global leader in the production of stock and custom silica / silica, plastic-clad silica, and hard polymer-clad silica optical fibers; fused capillary tubing; DPSS lasers; diode modules; and low loss bundles and assemblies for UV, VIS, and IR transmission, medical laser delivery, sensors, plasma fusion, and spectroscopy.

With several facilities worldwide, we are able to provide our customers with local, prompt, and reliable service and products. By maintaining complete control over the entire manufacturing process—from preform manufacturing to finished fiber product—we are able to provide the highest quality control, custom solutions, and competitive pricing to our customers.

Please visit <http://www.ceramoptec.com> for more information.

CeramOptec is a subsidiary of biolitec™ AG.

Please visit <http://www.biolitec.com> for more information.