

ArmD® UV-HC, ArmD® NIR-HC

Silica fiber with hard polymer cladding

Our hard polymer-clad fibers offer high numerical apertures to suit a broad range of applications, from remote illumination to photodynamic therapy. This high-quality fiber is a cost-effective alternative to silica/silica fibers. Explore our range of jacket types and sizes, including customizable options crafted to precisely meet your specifications.

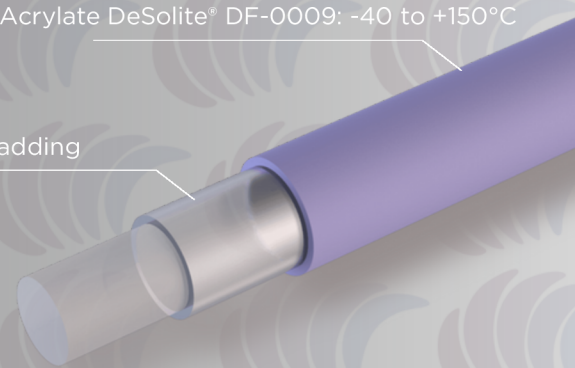
Wavelength		Numerical Aperture (NA)	
ArmD® UV-HC	300 - 1100 nm	Low	0.37 ± 0.02
ArmD® NIR-HC	400 - 2200 nm	High	0.48 ± 0.02
			0.50 ± 0.02
			0.52 ± 0.02
			0.57 ± 0.02
			0.62 ± 0.02

Jacket:
 ETFE (Tefzel®): -40 to +150°C
 Nylon: -40 to +100°C
 Acrylate: -40 to +85°C
 Acrylate DeSolite® DF-0009: -40 to +150°C

Advantages

- Cost-effective (in comparison to silica/silica fibers)
- High concentricity
- All-dielectric, non-magnetic design
- Step-index profile
- Biocompatible material
- Sterilizable using ETO and other methods

Hard polymer cladding



Technical data

Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 µm
OH content	ArmD® UV-SC: high (<700 ppm) ArmD® NIR-SC: low (< 1 ppm)
Standard proof test	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)



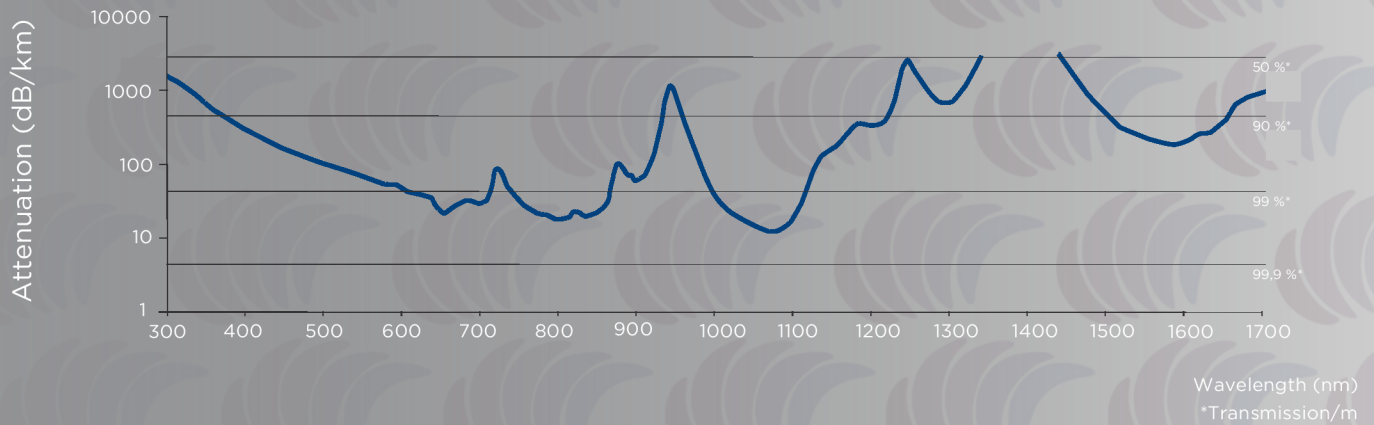
Scan to see more



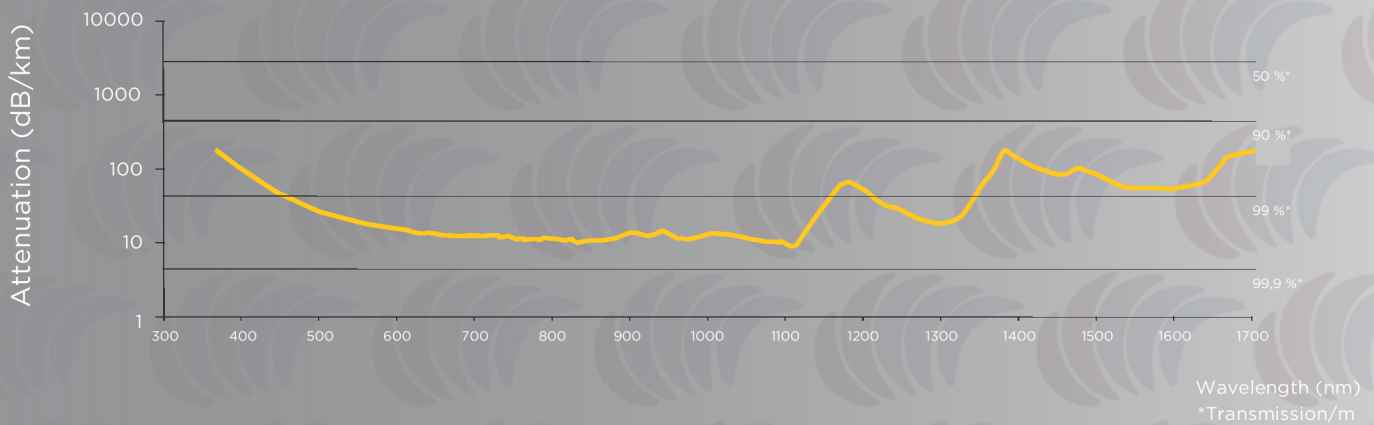
Attenuation values

The following diagrams provide an overview of attenuation values in relation to wavelengths:

ArmD® UV-HC



ArmD® NIR-HC



Applications

The preferred option for a range of applications, including remote illumination and photodynamic therapy, among others.



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