

ArmD[®] Shaped Angular-shaped fibers

These shaped fibers are well-suited for laser applications and more, are particularly advantageous when the shape and uniformity of the output beam are critical. Armadillo provides these fibers in various core/cladding geometries such as rectangular, square, octagonal, offering additional benefits compared to our UV/NIR range. The need for laser beam-shaping optics can be eliminated.

Wavelength	Numerical Aperture (NA)
ArmD [®] UV Shaped 200 - 1100 nm	Low 0.15 ± 0.02
ArmD [®] NIR Shaped 300 - 2400 nm	Standard 0.22 ± 0.02
	High 0.28 ± 0.02

Jacketing Options:

Polyimide: -190 to +350°C
 ETFE (Tefzel[®]): -40 to +150°C
 Nylon: -40 to +100°C
 Acrylate: -40 to +85°C
 DuPont Hytrel[®] 7246: -40 to +140°C
 Acrylate DeSolite[®] DF-0009: -40 to 150°C
 PFA Fluon[®]: -200° to +260°C

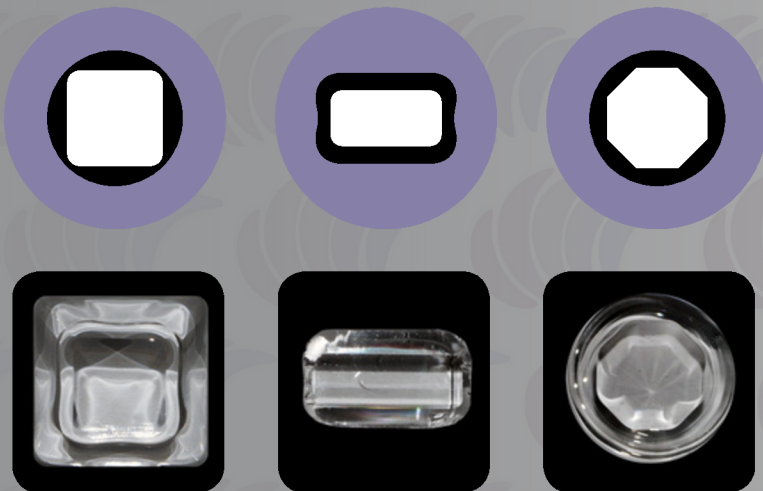
Advantages

- Broad UV / VIS / NIR spectral range
- Wide range of core and cladding geometries, e.g. square, rectangular or octagonal
- Homogeneous power distribution
- Very low NA expansion
- Excellent image scrambling characteristics
- No need for laser beam-shaping optics
- Biocompatible material
- High resistance against laser damage



Shapes available

Various core and cladding geometries are offered, including square, rectangular and octagonal shapes.



armadillosia.com
 +1-408-900-8883
 info@armadillosia.com



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