

# ArmD<sup>®</sup> 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)		Jacketing Options: Polyimide: -190 to +350°C ETFE (Tefzel <sup>®</sup> ): -40 to +150°C Nylon: -40 to +100°C Acrylate: -40 to +85°C DuPont Hytrel <sup>®</sup> 7246: -40 to +140°C Acrylate DeSolite <sup>®</sup> DF-0009: -40 to 150°C PFA Fluon <sup>®</sup> : -200° to +260°C
ArmD <sup>®</sup> UV Shaped 200 - 1100 nm	Low	0.15 ± 0.02	
ArmD <sup>®</sup> NIR Shaped 300 - 2600 nm	Standard	0.22 ± 0.02	
	High	0.28 ± 0.02	

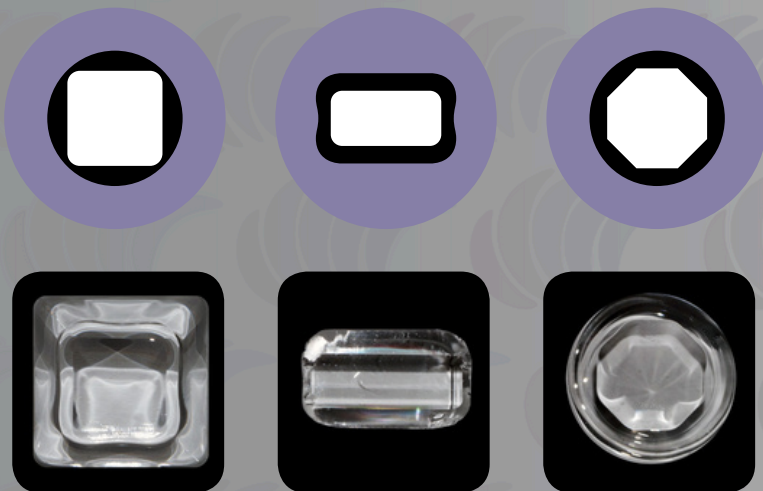
## Advantages

- 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.



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