# 25/300 Passive LMA Double Clad Fibers



Nufern's passive series of Large Mode Area (LMA) double clad fibers are ideal for high power monolithic fiber lasers and amplifiers. These passive fibers are based on a 25 micron diameter core and 300 micron diameter clad size with a low NA (0.09) core and are designed to work well with the active Er/Yb co-doped 25/300 LMA and PLMA fibers. These fibers utilize the latest fiber design and NuCOATIM coating technology to ensure excellent preservation of beam quality and extended operating life at the high power levels demanded by today's industrial fiber laser applications. These fibers are available in both non-PM and PANDA-style PM fibers

# **Typical Applications**

- Eye safe (1.5 μm) lasers and amplifiers
- · Military and commercial lidar
- High peak power, pulsed fiber amplifiers
- · Ultra-short pulse fiber amplifiers

## **Features & Benefits**

- · Designed for compatibility with 25/300 Er/Yb co-doped active fibers
- NucOAT™ fluoroacrylate coating Greater fiber durability in extreme environmental operating & storage conditions
- Optimized LMA core design Easy to maintain single mode LP01 beam through fiber & components at high power
- All fiber proof tested to > 100 kpsi Critical for ensuring long term reliability when coiling

#### **Optical Specifications**

Operating Wavelength Core NA First Cladding NA (5%) Cladding Attenuation Birefringence

# Geometrical & Mechanical Specifications

Cladding Diameter
Core Diameter
Coating Diameter
Core/Clad Offset
Clad Non-Circularity
Coating Material
Prooftest Level

### PLMA-GDF-25/300

1530 – 1800 nm 0.090 ≥ 0.46 ≤ 15.0 dB/km @ 1095 nm nominal 1.5 × 10<sup>-4</sup>

300.0 ± 8.0 µm 25.0 ± 2.0 µm 450.0 ± 15.0 µm

≤ 2.00 µm

Low Index Polymer ≥ 100 kpsi (0.7 GN/m²)

M05-A-034-A

#### LMA-GDF-25/300

1530 - 1800 nm

0.090

≥ 0.46

≤ 15.0 dB/km @ 1095 nm

N/A

 $300.0 \pm 4.0 \ \mu m$   $25.0 \pm 2.0 \ \mu m$   $450.0 \pm 15.0 \ \mu m$  $\leq 2.00 \ \mu m$ 

≤ 0.5 % Low Index Polymer ≥ 100 kpsi (0.7 GN/m²)



Designed to work with 25/300 LMA and PLMA Er/Yb co-doped active fibers



RoHS