

# PANDA PM Bend Insensitive Specialty Optical Fibers

CORNING



*Polarization  
Maintaining  
Fibers for Bend  
Sensitive  
Applications*

*PANDA PM Bend Insensitive Specialty Optical Fiber is designed with significantly improved bending capacity, suited to meet the needs of package size reductions and 100 Gbps systems.*

*PANDA PM fibers are optimized for high reliability, and our Boron-doped stress rod profile is field proven to support high growth applications over a wide temperature range.*

## **Applications:**

- Small package size transponders, transceivers, modulators and laser fiber assemblies
- Sensors
- Bend sensitive applications
- Miniaturized components
- Polarization sensitive components

## **Features:**

- Significantly improved bending capacity
- Extremely high birefringence
- Single-mode design
- Fibers available with dual-layer UV acrylate and flame retardant polyester coatings

## Key Optical Specifications

	BIPM 1550	PMSR 1550
Wavelength (nm)		1550
Mode-field Diameter ( $\mu\text{m}$ )	$9.0 \pm 0.4$	$9.5 \pm 0.4$
Maximum Beat Length (mm)	3.0	2.0 - 5.0
Maximum Cross Talk at 100 m (dB)		$\leq -30$
Maximum Bending Cross Talk (dB)	$\leq -30$ ( $\lambda = 1550$ nm, bending diameter = 15 mm, 10 turns)	
Cutoff Wavelength (mm)		$\leq 1.44$
Maximum Attenuation (dB/km)	$\leq 3.0$	$\leq 0.50$

## Key Geometric and Environmental Specifications

### (-U25D-H) UV/UV Acrylate

Part Number	BIPM15-U25D-H	PMSR15-U25D-H
Bending Radius (mm)	R7.5	R15.0
Core-to-Cladding Offset		$\leq 0.5$
Coating Outer Diameter ( $\mu\text{m}$ )	$254 \pm 15$	
Cladding Outer Diameter ( $\mu\text{m}$ )	$125 \pm 1$ (major diameter)	
Operating temperature ( $^{\circ}\text{C}$ )	- 40 to +85 (Without coiling on a shipping reel)	
Standard Lengths (m)	100, 200, 300, 400, 500	
Proof Test (Kpsi)	200	

### (U40D-H and -H90D-H) Polyester Elastomer

Part Number	PMSR15-U40D-H	PMSR15-H90D-H
Bending Radius (mm)		R15.0
Core-to-Cladding Offset		$\leq 0.5$
Coating Outer Diameter ( $\mu\text{m}$ )	$400 \pm 15$	$900 \pm 100$
Cladding Outer Diameter ( $\mu\text{m}$ )	$125 \pm 1$	
Operating temperature ( $^{\circ}\text{C}$ )	- 40 to +85 (Without coiling on a shipping reel)	
Standard Lengths (m)	100, 200, 300, 400, 500	
Proof Test (Kpsi)	200	

### (-H50D-H) Polyester Elastomer

Part Number	BIPM15-H50D-H	PMSR15-H50D-H
Bending Radius (mm)	R7.5	R15.0
Core-to-Cladding Offset		$\leq 0.5$
Coating Outer Diameter ( $\mu\text{m}$ )	$500 \pm 50$	
Cladding Outer Diameter ( $\mu\text{m}$ )	$125 \pm 1$	
Operating temperature ( $^{\circ}\text{C}$ )	- 40 to +85 (Without coiling on a shipping reel)	
Standard Lengths (m)	100, 200, 300, 400, 500	
Proof Test (Kpsi)	200	

For more information about Corning's leadership in Specialty Fiber technology visit our website at [www.corning.com/specialtyfiber](http://www.corning.com/specialtyfiber)

To obtain additional technical information, an engineering sample or to place an order for this product, please contact us at:

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