



## ClearLite® POLY P2 1310 11 NA Optical Fiber

P/N: BF05717-01

| Product Specifications              |                                                                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>          | <b>ClearLite POLY P2 1310 11 NA</b>                                                                                                                                                                                                 |
| <b>Physical Characteristics</b>     |                                                                                                                                                                                                                                     |
| Coating Material                    | PYROCOAT®                                                                                                                                                                                                                           |
| Cladding Diameter                   | 125 ± 2 µm                                                                                                                                                                                                                          |
| Coating/Buffer Diameter             | 155 ± 5 µm                                                                                                                                                                                                                          |
| Core/Clad Offset                    | ≤ 1.0 µm                                                                                                                                                                                                                            |
| Core Diameter (Nominal)             | 8.4 µm                                                                                                                                                                                                                              |
| Clad Non-Circularity                | ≤ 2.0%                                                                                                                                                                                                                              |
| <b>Optical Characteristics</b>      |                                                                                                                                                                                                                                     |
| Type                                | Single-Mode                                                                                                                                                                                                                         |
| Operating Wavelength                | 1310/1550 nm                                                                                                                                                                                                                        |
| Cutoff Wavelength                   | ≤ 1290 nm                                                                                                                                                                                                                           |
| Mode Field Diameter @ 1310          | 9.3 ± 0.5 µm                                                                                                                                                                                                                        |
| Mode Field Diameter @ 1550          | 10.5 ± 1.0 µm                                                                                                                                                                                                                       |
| Attenuation @ 1310 nm               | ≤ 0.7 dB/km                                                                                                                                                                                                                         |
| Attenuation @ 1550 nm               | ≤ 0.6 dB/km                                                                                                                                                                                                                         |
| Numerical Aperture                  | 0.11                                                                                                                                                                                                                                |
| <b>Mechanical and Environmental</b> |                                                                                                                                                                                                                                     |
| Operating Temperature               | -65 to +300°C                                                                                                                                                                                                                       |
| Short-Term Bend Radius              | ≥ 10 mm                                                                                                                                                                                                                             |
| Long-Term Bend Radius               | ≥ 17 mm                                                                                                                                                                                                                             |
| Proof Test Level                    | 200 kpsi (1.38 GPa)                                                                                                                                                                                                                 |
| <b>Order by Part Number</b>         | <b>BF05717-01</b>                                                                                                                                                                                                                   |
| <b>Product Description Code</b>     | <b>SMT-A1310H PYROCOAT II FIBER</b>                                                                                                                                                                                                 |
| OPTIONS                             | Buffer Color, Buffer Diameter, Buffer Material, Cabling, Metalization, Proof Test, Termination                                                                                                                                      |
| NOTE                                | Lightera polyimide optical fibers are known to operate in environments up to 300 °C. Performance is application dependent. Contact our Technical Sales department to discuss your specific application requirements. 1-860-678-6636 |

### Typical Applications

- High-Temperature Environments
- Medical Sensing and Imaging
- Oil and Gas Applications

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| Contact Information             | For additional information please contact your sales representative. You can also visit our website at <a href="http://www.lightera.com">www.lightera.com</a> or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.  |
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