Delivering Solutions for Fiber Optic Technology

High temperature polymer coatings and extruded sheathings.
**DUAL-SHRINK® FEATURE**

Dual-Shrink® heat shrink is an ideal example of our protective insulation. This product will encapsulate and protect your fiber optic housings, cables, and connectors from elevated temperatures or moisture.

**CORE RESINS WE EXTRUDE**

**DIVERSE PRODUCT OPTIONS**

We offer optical fiber coatings and extruded sheathings from polymers such as PEEK, PTFE, PFA, ETFE, PVDF, and FEP. In the table below, we detail key benefits of each extruded resin by market.

<table>
<thead>
<tr>
<th>ENERGY</th>
<th>AEROSPACE</th>
<th>SPECIAL TELECOM FIBER</th>
<th>NUCLEAR</th>
<th>AUTOMOTIVE</th>
<th>MEDICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEEK</strong></td>
<td>PFA</td>
<td>FEP</td>
<td>ETFE</td>
<td>PTFE</td>
<td>PTFE</td>
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<tr>
<td>(500 °F / 260 °C)</td>
<td>(-328 °F / -200 °C to 500 °F / 260 °C)</td>
<td>(-328°F / -200°C to 400 °F / 205°C)</td>
<td>(-308°F / -189°C to 302°F / 150°C) and ETFE</td>
<td>(-260°C)</td>
<td>(260 °C)</td>
</tr>
</tbody>
</table>

**FEP**  | PVDF      | PEEK                | PEEK    | ETFE       | FEP     |
| (-328°F / -200°C to 400 °F / 205°C) | (302°F / 150°C) | (500 °F / 260 °C) | (500 °F / 260 °C) | (-308°F / -189°C to 302°F / 150°C) | (500°F / 260 °C) |
| Wide Temperature Stability, Low Coefficient of Friction | Chemical Resistance | Thermal Stability, Abrasion Resistance, Mechanical Integrity | Thermal Stability, Abrasion Resistance, Mechanical Integrity | Improved Strength, and Performs Well with ETO, Autoclave and Gamma Sterilization, Class VI Approved | Enhanced Pushability, Autoclave and Gamma Resistance, Class VI Approved |

**PVDF**  | PTFE      | ETFE                | ETFE    | PEEK       | ETFE    |
| (302°F / 150°C) | (260 °C) | Low Coefficient of Friction* | (500 °F / 260 °C) | (500 °F / 260 °C) | (500°F / 260 °C) |

*PTFE is currently not available as an optical fiber coating - but is available as extruded sheathing.
OPTICAL FIBER COATINGS

PROTECTION FOR CRITICAL ENVIRONMENTS

Coatings protect fibers in situations requiring mechanical strength, temperature stability, and resistance to radiation and abrasion. We will help you find the right coating options for your application.

POLYMER COATED OPTICAL FIBER:
A) Polymer Protection — PEEK, ETFE, PVDF, PFA, FEP and more.

B) Primary Coating — Polyimide, Acrylic, etc.

C) Fused Silica Glass Core and Cladding

SPECIALIZED EXTRUSIONS AND SHEATHING

We offer a variety of sizes, shapes, colors and custom profiles.

MULTI-LUMEN
Orients fibers for connectors or cable designs.

SPIRAL CUT
Abrasion resistant, high temperature bundling option.

CONVOLUTED
Flexible, low friction, abrasion protection.

RIBBON SHEATHING
Rectangular profile for protection of ribbon fiber.

INSERTS FOR CONNECTORS

Zeus provides PTFE, FEP, PFA, PEEK, and other polymer tubing flared for lead-in tubes for connectors. These connectors provide a low friction liner for insertion.

FOCUS ON ORIENTATION

Ask about our diverse catalog of multi-lumens — tubes with separate channels to orient optical fibers for connectors and cables. Square, rectangular, and custom profile shapes are available in a variety of colors and resins.
Zeus delivers precision polymer solutions that transform businesses, markets and lives. We have dedicated ourselves to building partnerships, products and services for the benefit of our customers.

Headquartered in Orangeburg, South Carolina, Zeus employs approximately 1,300 people and operates multiple facilities around the world.

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