

**WHY FIBER-LINE® EXTRUSION?****Overview**

- FIBER-LINE® extrusion is the process of forming a polymer jacket of various thickness around a core of high-performance fibers
- Fiber core can be parallel, twisted, or in rope form
- Polymer jacket selected to optimize flex, chemical, temperature, & UV resistance

**Key Features**

- .50mm – 30.00mm size capability
- Protect the core from mechanical, environmental, and chemical damage
- Extend life of cable or strength member
- Enhance flame & chemical resistance
- Improve UV resistance
- Many polymers available

**FIBER-LINE® FIBERS SUITABLE FOR EXTRUSION**

- Kevlar® Para-Aramid
- Vectran® LCP
- Zylon® PBO
- Technora®
- Carbon Fiber
- Fiberglass

**FIBER-LINE® PRODUCTS ADDED BY EXTRUSION**

- Strength members
- Tracer-wire
- Micro-cable
- Ruggedized cable

**Our Polymer Offering**

- EPC
- ETFE
- FEP
- Hytrel
- PFA
- Polyethylene
- Polypropylene
- Polyurethane
- PVC
- PVDF



**EXTRUSION**

FIBERS PROCESSES PRODUCTS

**EPC**

**ETFE**

**EPC BARE PERFORMANCE**

Operating Temperature Range	-65°C - 80°C
Chemical Resistance	✓
Flame Resistance	X
UV Resistance	✓
Flex Properties	✓

**ETFE BARE PERFORMANCE**

Operating Temperature Range	-100°C - 150°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	✓

**FEP**

**HYTREL**

**FEP BARE PERFORMANCE**

Operating Temperature Range	-195°C - 200°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	O

**HYTREL BARE PERFORMANCE**

Operating Temperature Range	-70°C - 125°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	✓

**EXTRUSION**

FIBERS PROCESSES PRODUCTS

**PFA**

**PFA BARE PERFORMANCE**

Operating Temperature Range	-200°C - 260°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	✓

**POLYETHYLENE**

**POLYETHYLENE BARE PERFORMANCE**

Operating Temperature Range	-65°C - 80°C
Chemical Resistance	✓
Flame Resistance	X
UV Resistance	✓
Flex Properties	O

**POLYPROPYLENE**

**POLYPROPYLENE BARE PERFORMANCE**

Operating Temperature Range	-45°C - 105°C
Chemical Resistance	✓
Flame Resistance	X
UV Resistance	✓
Flex Properties	X

**POLYURETHANE**

**POLYURETHANE BARE PERFORMANCE**

Operating Temperature Range	-55°C - 125°C
Chemical Resistance	✓
Flame Resistance	X
UV Resistance	✓
Flex Properties	✓

PVC

PVDF

**PVC BARE PERFORMANCE**

Operating Temperature Range	-55°C - 105°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	✓

**PVDF BARE PERFORMANCE**

Operating Temperature Range	-40°C - 140°C
Chemical Resistance	✓
Flame Resistance	✓
UV Resistance	✓
Flex Properties	✓

**ABOUT FIBER-LINE®**

For over 25 years, FIBER-LINE® has provided science-driven expertise that improves the performance and the end-use processing of high performance fibers. Our products enable the search for new energy reserves and extend the life of fiber optic telecommunication cables. They also add important characteristics, such as SWELLCOAT® water-blocking, water repellence, adhesion, color, and wear and UV-resistance to these and many other applications. We believe that our ongoing commitment to protect the environment, to remain at the forefront of fiber and coating technology, and to 'treat others as we want to be treated' will continue to drive the success of our customers, shareholders, and employees.

**LOCATIONS****Headquarters, R&D, Manufacturing**

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