

Drawn Fiber

ECTFE, ETFE, FEP, PEEK, PFA, and PVDF

Overview-

Zeus drawn fiber provides the performance and versatility to fit almost any application. As a braided sleeve or expandable over-braid, these products are especially suited to industries such as automotive and aerospace. Placed over existing wire assemblies or woven onto hoses, these products provide the protection against chafing and heat contact as well as strengthening reinforcement.

The chemical resistance of many of our drawn fiber resins makes the products well-suited for filtration applications. With our capability to produce small fiber sizes, these products can be woven into a fine mesh for applications such as mist eliminators, liquid phase separation filters, scrubbers, and droplet control. Our drawn fiber can also be woven into ribbons (known as garniture or suction tape in the tobacco industry) or for use as conveyor belts in food processing and pulp paper industries.

With our half century of experience, Zeus has developed the expertise to manufacture drawn fiber from multiple resins. Our diverse portfolio of performance fibers includes ECTFE, ETFE, FEP, PEEK, PFA, and PVDF. Customization is one of our principal goals in serving our customers. While we typically extrude drawn fiber in sizes from 0.002" to 0.040" (0.051 mm to 1.02 mm) diameters, ask us about other sizes and profiles.



TENSILE STRENGTH



CHEMICAL RESISTANCE



ABRASION RESISTANCE



Zeus drawn fiber is available in sizes from 0.002" - 0.040".

ECTFE FIBER

- Impact and temperature resistant
- Superior surface smoothness

ETFE FIBER

- Superior mechanical toughness
- Chemical resistance
- Radiation resistance

FEP FIBER

- Highly robust
- Excellent optical clarity
- Lubricious

PEEK FIBER

- High tensile strength
- Abrasion resistance
- Lightweight material

PFA FIBER

- Superior purity
- Chemical resistance
- Long service life

PVDF FIBER

- UV stability
- Mechanically toughness
- Abrasion resistance



Drawn Fiber

Properties are based on Zeus PEEK Drawn Fiber. Custom colors, diameters, and properties are available. Contact us for more information or for free samples.

PEEK FIBER SPECIFICATIONS				
SPECIFICATION	0.010" DIAMETER	0.011" DIAMETER	0.016" DIAMETER	UNITS
Min OD - 3 Std Dev	0.0085	0.0095	0.0145	in.
Max OD + 3 Std Dev	0.0115	0.0125	0.0175	in.
Min Tensile Strength	4	5.5	11	lbs
Min Tenacity	3	3.6	3.7	gpd
Min Rel Elongation @ 2 gpd	4	5	5	%
Max Rel Elongation @ 2 gpd	9	10	11	%
Min Elongation @ Break	18	18	20	%
Max Elongation @ Break	30	30	35	%
Min Shrinkage	3	3	2	%
Max Shrinkage	5	5	6	%

