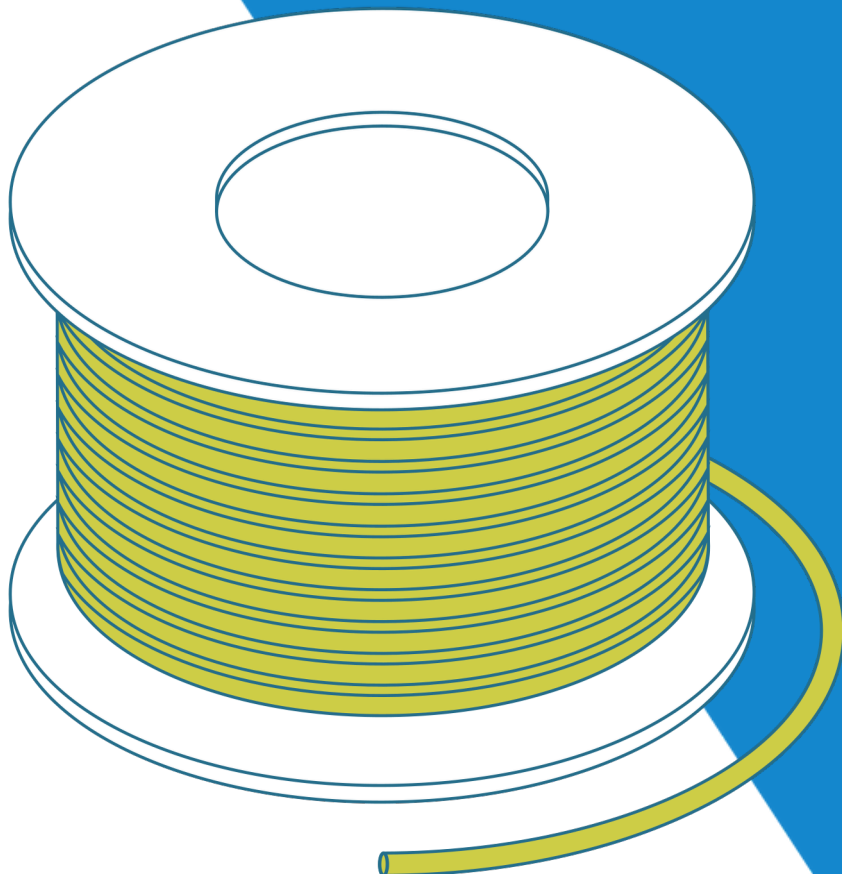




# ZYEX<sup>TM</sup>

THE  
**THERMOPLASTIC**  
FIBRE OF CHOICE  
**FOR DEMANDING ENVIRONMENTS**  
MADE WITH VICTREX<sup>TM</sup> PEEK POLYMER



# VICTREX ZYEX™ FIBRES

Fibre of Choice



**Produced from VICTREX™ PEEK polymer, one of the highest performing thermoplastics in the world, ZYEX™ FIBRES have the strength and reliability needed for use in applications in the toughest environments.**

Across multiple industries there's an increasing need for fibre solutions that can resist abrasion and chemical attack, at elevated temperatures. ZYEX™ FIBRES provide this durability and strength with a product range that can operate in extreme and demanding environments.



As the number one provider of PEEK and with over 40 years of experience, Victrex is focused on innovating PEEK-based forms and parts to meet the challenges of extreme environments.

We work with customers across industry sectors, including manufacturing, aerospace and automotive, to provide high performance fibres which meet their specific application requirements.

## KEY PROPERTIES



**Thermal endurance** – continuous operating range from -60°C to 260°C



**Abrasion resistance** – especially at extreme temperatures

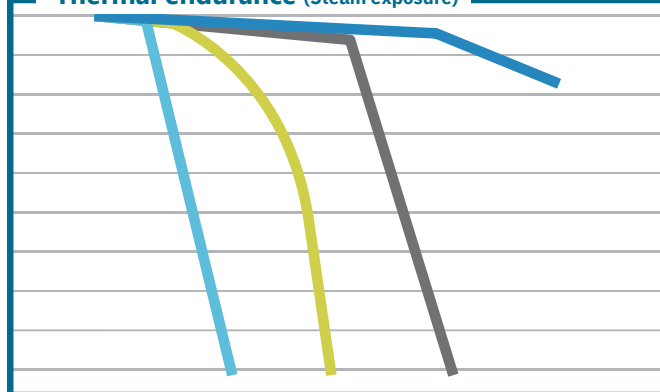


**Chemical resistance** – in a wide variety of aggressive conditions



**High purity** – particularly important where sanitation is needed

## Thermal endurance (Steam exposure)



Temperature °C (All samples conditioned for 7 days in steam)

■ PET m- ■ Aramid ■ PPS ■ ZYEX

# PEEK PERFORMANCE FOR YOUR APPLICATIONS

## ZYEX FIBRES are available as:

### Monofilament

Available in various diameters from 0.07mm to 2.00mm and colours

### Multifilament

Variety of decitex and filament count yarns from 75f15 (68/15) to 1230f72 (1107/72). Intermingled, twisted, textured and dyed products are possible

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**ZYEX FIBRES can be woven, braided, knitted, twisted and needled with conventional equipment and technology.**

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## SHAPING THE MOST DEMANDING APPLICATIONS

Victrex produces ZYEX™ FIBRES for use in diverse applications, ranging from monofilaments for braided electrical cable protection and noise suppression fabrics for jet engines, to fuel filters for cars and open mesh conveyors, or multifilaments for narrow woven industrial tapes and patented monofilaments for strings required within the leisure industry.

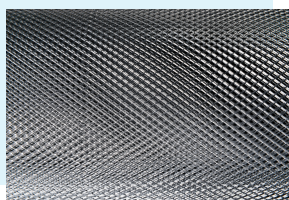
### PROCESS BELTING



#### Wide or narrow woven belts and joins

- Extended belt lifetime potential; low creep, abrasion and hydrolysis resistance.
- Extreme operating conditions (thermal, chemical and mechanical)
- High purity for use in food contact
- Excellent surface release (non-stick)

### FILTRATION



#### Filtration mesh fabrics and sewing threads

- Wide range of mesh openings
- Chemical resistance
- Dimensional stability and toughness
- Easy overmoulding

### CABLE PROTECTION



#### Scratch resistant monofilaments

- Wide operating temperature range (high and low)
- Lightweight replacing metal or fluoropolymers
- Inherently flame retardant and low smoke toxicity
- Multiple colours available for identification purposes

### LEISURE



#### Musical instrument and racquet strings

- Good tensile properties, stretch and recovery
- Excellent tension holding (low creep)
- Environmental stability (moisture and temperature)



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