



# INNOVATING DRUG DELIVERY DEVICES

with Victrex high performance polymers

Innovation in drug delivery devices presents several challenges, in order to bring to market devices that enable

- ▶ improved patient compliance
- ▶ connected e-devices
- ▶ novel drug delivery systems
- ▶ smaller, lightweight, ergonomic devices

Victrex is well placed to help address these challenges through high performance polymers. We have 40+ years' experience in delivering polymer solutions in the most extreme environments from aerospace, automotive, electronics, food contact and implantable medical solutions.

#### Safe in contact with the human body

Masterfile of biocompatibility and clinical evidence, demonstrates no unwanted toxins or gases release when exposed to a wide range of body tissue types

#### Safe in contact with drugs

Retains performance when in contact with chemical or drug concentrates, and during sterilisation

#### Lightweight & durable

Lightweight and durable to resist impact, and for continued use over time, even in miniaturised parts under load

#### Electrical performance

Electrical insulative properties enable outstanding thermal, environmental resistance and mechanical performance for connected devices

#### Withstands high temperatures

Can be used near parts that generate heat over time

#### Longevity & performance over time

Low co-efficient of friction provides wear and abrasion resistance to moving components

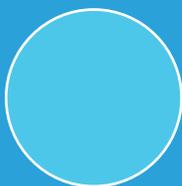
#### No moisture absorption

Low moisture absorption (0.05wt%) means components retain dimensions in biological or fluid environments

#### Easy processing & assembly

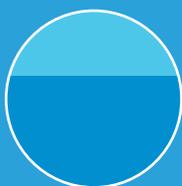
Medically compliant and biocompatible grades in a range of colours are easily moulded & can enable parts consolidation via additive manufacturing

Find out how VICTREX™ PEEK polymers can drive innovation in drug delivery device components, visit [victrex.com/drugdelivery](https://victrex.com/drugdelivery)



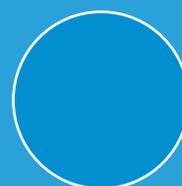
### 0 days VICTREX™ PEEK

for drug delivery device components that require strength, wear and mechanical properties that will not be implanted



### 1-30 days PEEK CLASSIX™

for short term contact with human tissue or implantable drug delivery devices for <30 days



### 30 days+ PEEK-OPTIMA™

for long-term implantable devices >30 days



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