



PEEK POLYMER

FOR DRUG DELIVERY DEVICES

WHAT IS PEEK?

A high performance, non-resorbable thermoplastic polymer of the PAEK (Polyaryletherketone) family, available in a wide range of forms for use in different manufacturing processes.

WHY PEEK FOR DRUG DELIVERY APPLICATIONS?

- ✓ Miniaturized parts
- ✓ Connected devices
- ✓ Low-cost manufacturing
- ✓ Reliable and accurate dosing
- ✓ Patient-friendly for treatment adherence
- ✓ Ease of processing, injection molded or machined

MICROPUMP WITH WEARABLE PATCH

Insulin delivery systems

WEARABLE PATCH – BENEFITS OF PEEK

- Biocompatible
- Sterilization resistant
- Artifact-free imaging for unobstructed views



MICROPUMP – BENEFITS OF PEEK

- High mechanical strength
- Miniaturization of parts
- Wear resistant
- Water resistant
- Telemetry and communication characteristics
- Stable electric insulation and thermal dissipation
- Compatible with a range of joining technologies



METERED DOSE INHALER

For Asthma and Chronic Obstructive Pulmonary Disease (COPD)

BENEFITS OF PEEK

- Compressive strength and creep* resistance
- Good dimensional stability
- Resistant to chemicals
- No interaction with the API
- No additives or processing agents

OTHER APPLICATION EXAMPLES

- Electronic Drug Delivery Systems
- Injection pen / Auto-injector devices
- Primary packaging

*Supporting information available upon request

THE #1 PEEK EXPERTS

VICTREX™ AND ITS SUBSIDIARY INVIBIO™ BIOMATERIAL SOLUTIONS™



**FOR NON-IMPLANTABLE
DRUG DELIVERY APPLICATIONS**

VICTREX™ PEEK Polymer

- Integrated supply chain
- Security of supply
- Local technical support
- Millions of people rely on Victrex PEEK polymers everyday*



**FOR IMPLANTABLE
DRUG DELIVERY APPLICATIONS**

Invibio PEEK-OPTIMA™ Natural Polymer

- Comprehensive Master File
- Zero material-related recalls
- Extensive clinical evidence
- ISO-certified manufacturer
- Used in medical devices cleared globally:*
- US FDA 510(K), CE-marked and other regulatory bodies

#1 PEEK EXPERTS

40+ YEARS OF INNOVATION

- 500M+ Automotive gears
- 20K+ Aircraft
- 4B+ Mobile devices
- Ventilators

 www.victrex.com

20+ YEARS OF CLINICAL HISTORY

~9M PEEK OPTIMA DEVICES IMPLANTED WORLDWIDE

- Interbody Fusion Devices for spinal fusion
- Trauma Fracture Fixation plates
- Suture anchors for shoulder repair
- Dental Prosthetic implants

 www.invibio.com

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