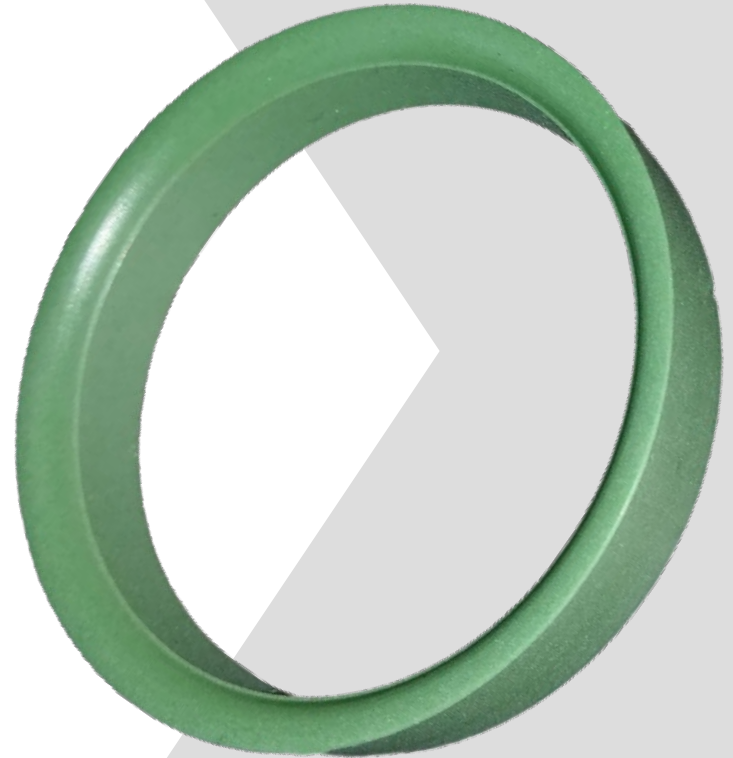


# Sealing Solution

Improved performance **vs. PCTFE**  
under cryogenic conditions

- ▶ **Extend the temperature range of cryogenic valves**
- ▶ **Increase sealing reliability through improved mechanical & thermal properties**
- ▶ **Deliver potential cost savings**



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**NEW POLYMER**

# VICTREX CT™ (Cryogenic Temperature)



## IMPROVE YOUR SEALING VS. PCTFE IN CRYOGENIC CONDITIONS



**Higher tensile strength** coupled with lower modulus confirms more ductility across a wider range of temperatures; testing at  $-196^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  indicates better sealing capabilities which could also extend to higher temperatures in the range of  $+200^{\circ}\text{C}$ .



**Lower and constant coefficient of thermal expansion** ensures more dimensional stability and minimizes the shrinkage at low temperatures.



**Higher thermal conductivity** permits a faster reaction to temperature changes allowing the seat seal to keep interference with the steel counter-surface at all time – contributing to more consistent sealing.



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SPECIAL SITE  
FOR MORE!!

### VICTREX CT™100

offers outstanding ductility at  $-196^{\circ}\text{C}$ , higher tensile elongation and slightly lower compressive modulus.

### VICTREX CT™200

offers a lower static and dynamic coefficient of friction which helps minimizing torque and wear allowing smaller actuators and saving space and weight.

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VICTREX™ PEEK SOLUTIONS FOR ENERGY APPLICATIONS

# Enabling Changes Towards Sustainable Energy Solutions

*Enhancing equipment to survive and thrive  
in extreme environments*



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Victrex polymers is a material of choice for components and parts inside equipment and tools to explore, secure, store and transfer energy source - **typically exposed to a combination of multiple complex engineering requirements.**

Addressing ongoing **materials challenges such as PCTFE, PEEK** polymer's multi-faceted material performance including VICTREX CT™ polymers designed specifically with these requirements in mind, enables proven performance and reliability in extreme environments where failure is not an option for business, and for the planet.

**Let us help you change what's possible.**

**Let's make change.**



**VIEW  
PROPERTIES  
& BENEFITS**





# The many strengths of PEEK under stress

A unique combination of VICTREX™ PEEK properties for Energy Applications



## EXTREME TEMPERATURE RESISTANCE

Stable operation from -196°C up to 260°C



## MECHANICAL STRENGTH

100% retention of tensile strength after 1,000 hours in A3-Phase aromatic Norsok system with gas phase of 100% H<sub>2</sub>S at 175°C (347°F)



## EXCELLENT WEAR RESISTANCE

Both in lubricated and non-lubricated systems which helps improve reliability and service life



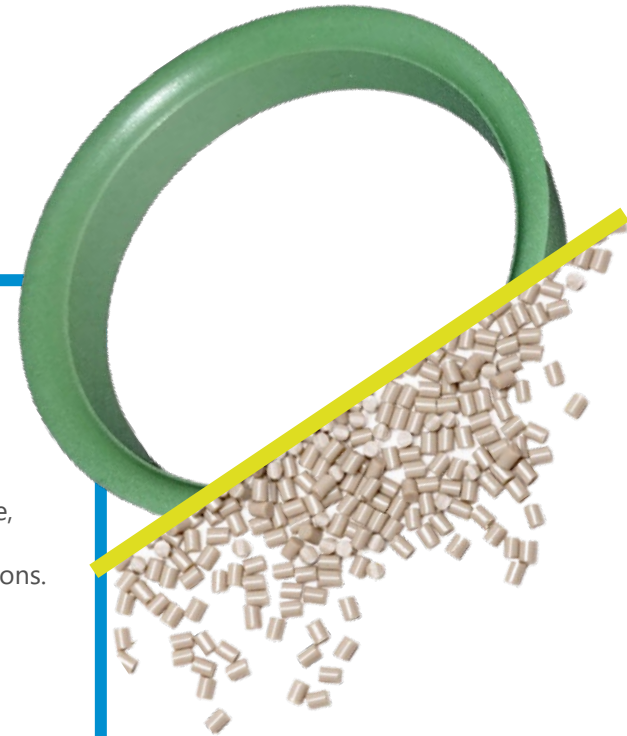
## ENVIRONMENTAL RESISTANCE

Excellent resistance to moisture, chemicals, and environmental elements in wet offshore locations.



## RADIATION RESISTANCE

Excellent radiation resistance and electrical properties across a wide range of temperatures



There's more at [victrex.com/Energy](http://victrex.com/Energy)

