

**VICTREX™ PEEK OFFERS YOU**

High wear performance  
 High creep resistance  
 High temperature performance  
 Good chemical & hydrolysis resistance

Meets flammability requirements  
 Equivalent or more durability and reliability to replace metal



**DO MORE WITH LESS**



**VICTREX™ PEEK POLYMER SOLUTIONS FOR VACUUM CLEANERS**



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**About Victrex**

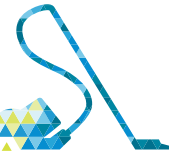
Victrex is an innovative world leader in high performance polymer solutions, focussed on the strategic markets of automotive, aerospace, energy (including manufacturing & engineering), electronics and medical. Every day, millions of people use products and applications, which contain our materials – from smart phones, aeroplanes and cars to oil and gas operations and medical devices. With over 35 years' experience, we develop world leading solutions in PEEK and PAEK-based polymers, semi-finished and finished parts which shape future performance for our customers and our markets, and drive value for our shareholders. Find out more at [www.victrex.com](http://www.victrex.com)

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# SHAPING THE FUTURE OF VACUUM CLEANER DESIGN



Consumers today are demanding more from their vacuum cleaners: they must be quiet, small, energy efficient as well as longer lasting and have excellent suction performance. This combined with new industry regulations, results in many challenges for design engineers to navigate. Victrex helps vacuum manufacturers stay one step ahead of the curve in meeting these evolving market needs; enabling design engineers to achieve more performance with less power, noise and weight. **Designing today, for the vacuum cleaners of tomorrow.**

## WE CAN HELP YOU DELIVER MORE WITH LESS

Our VICTREX™ PEEK technology provides the flexibility to design a new solution to existing challenges, delivering a range of benefits:

UP TO **2%**

### MORE ENERGY EFFICIENCY

Up to 2% energy efficiency improvement when replacing metal parts with VICTREX PEEK

UP TO **50%**

### LESS NOISE

3dB noise reduction when switching from metal to VICTREX PEEK, which is 50% quieter to the human ear

UP TO **40%**

### LESS WEIGHT

Up to 40% weight reduction of components with VICTREX PEEK compared to steel

## ENHANCED DURABILITY

Enhanced durability at high-speed, faster than 100,000 rpm operation

## IMPROVE PERFORMANCE. DECREASE POWER AND NOISE. EXCEED EXPECTATIONS.

We work closely with customers to help provide innovative design solutions to complex challenges, at a lower cost than traditional methods. Using our technology, combined with material and application know-how, we can help you create new, cutting-edge components that transform your vacuum cleaner design.

### REPLACING METAL COMPONENTS WITH LIGHT-WEIGHT VICTREX PEEK-BASED COMPONENTS MAY DELIVER:

- Enhanced durability**  
minimum deformation at faster than 100,000 rpm operation
- Less noise**  
reduced weight to help reach the high speed faster and quieter
- Energy efficiency improvement**  
potentially extending battery life
- Proven resistance**  
to various household chemicals, heat and moisture
- Process cost reduction**  
compared to machining metal

Our materials provide an excellent combination of benefits to enable efficiency, reliability and noise reduction that may deliver results today and accelerate growth for the future.



Vacuum cleaner suction/blower unit impellers

With more than 35 years of experience in high performance PEEK polymers, Victrex delivers innovative solutions for home appliance ranging from refrigerators to vacuum cleaners. We work with leaders in the home appliance market to help deliver everyday solutions that drive forward design innovation, efficiencies and performance.

To learn more and find out how we can help with your latest design challenge, contact us on [electronics@victrex.com](mailto:electronics@victrex.com) or visit [victrex.com/vacuumcleaner](http://victrex.com/vacuumcleaner)