

Confidence through certified and traceable material solutions

50+
traceable quality control tests performed per batch

35
years of quality and security of supply

400 works years of technical expertise with
60 scientists, engineers and technicians sharing
17 Ph.D.s that are focused on PEEK



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Victrex, headquartered in the UK, is an innovative world leader in high performance polymer solutions focused on the Aerospace, Automotive, Electronics, Energy and Medical markets. Every day, millions of people rely on products or applications which contain our polymers, from smartphones, aeroplanes and cars to oil & gas operations and medical devices. With over 35 years' experience, we are investing in technical excellence to deliver leading edge solutions to our customers and our markets, and to drive value for our shareholders. Find out more at www.victrex.com

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QUIETER EFFICIENT RELIABLE

VICTREX® PEEK POLYMER SOLUTIONS
FOR THE HOME-APPLIANCE INDUSTRY



FUTURE PERFORMANCE IN HOME APPLIANCE

Consumers today require their appliances to be energy efficient, quiet, and compact as well as be accompanied by longer warranties. This is pushing industry-leading companies to innovate to meet the ever more demanding needs of the consumer. Victrex has more than 13 years of experience in delivering innovative polymeric solutions for home appliances ranging from refrigerators to vacuum cleaners. **Lightweight VICTREX® PEEK components delivering an unmatched combination of efficiency, reliability, noise reductions and more effective use of space – that's future performance.**

POTENTIAL BENEFITS

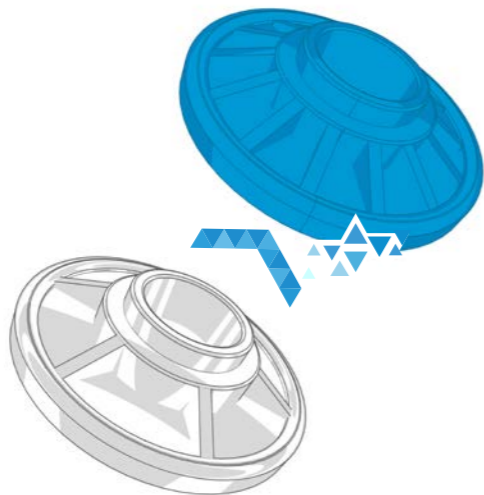
Replacing metal with VICTREX® PEEK components enables potential efficiency improvements, noise reductions, longer service life and more effective use of available space in refrigerator compressors.

UP TO **2%**

ENERGY EFFICIENCY IMPROVEMENT

UP TO **40%**

WEIGHT REDUCTION



UP TO **50%**

NOISE REDUCTIONS

UP TO **13 years**

PROVEN RELIABILITY

APPLICATIONS



▲ **APPLIANCE ROTOR SHAFT BUSHINGS**

🛡️ Potential to achieve twice the operating lifetime of steel bushings.



▲ **REFRIGERATOR/AC COMPRESSOR DISCHARGE VALVE**

💡 Improve efficiency by up to 2% by reducing weight and enabling more effective use of available space.

💡 Help the environment by reducing CO2 emissions by 148 kg/year: The same effect as planting 38 trees.



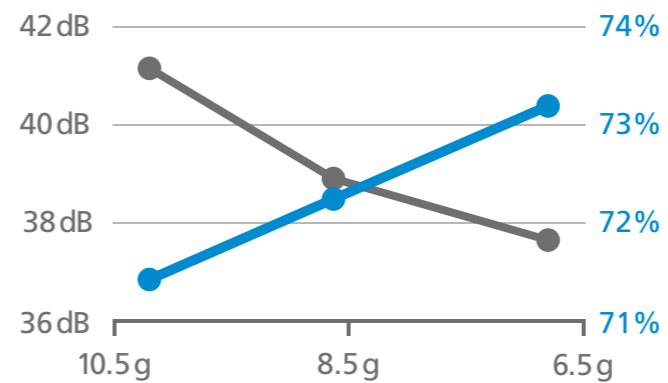
▲ **VACUUM CLEANER SUCTION/BLOWER UNIT IMPELLERS**

💡 Potential to reduce overall system costs by moving from machined stainless steel impellers to VICTREX® PEEK impellers.

🛡️ Enhanced durability at high-speed 120,000 rpm operation and 3db noise reduction.

⚖️ Minimize energy consumption Replacing steel with VICTREX® PEEK in compressor valves helped reduce weight by up to 40% – from 10 grams to 6 grams.

LIGHTWEIGHT AND EFFICIENT



VICTREX® PEEK DISCHARGE VALVES DRIVE EFFICIENCY AND NOISE REDUCTIONS IN LINEAR COMPRESSORS.

● Noise (dB)
● Efficiency (%)

PROVEN SUCCESSES TODAY... ACTIVE DEVELOPMENT FOR TOMORROW

IMPELLER THRUST WASHER BUSHING
ROD GUIDE DISCHARGE VALVE TIP SEAL
BEARING PISTON CONNECTING ROD GEAR

