

Inner Fixed Structure

- **Double curvature, complex shape part**
- ► LMPAEK[™] Thermoplastic
- AFP Insitu consolidation at 10m/min
- 24 ply-laminate (3.3mm thick)









► VICTREX[™] COMPOSITES SOLUTIONS FOR **AEROSPACE**



Game Changing Thermoplastic Composites

Unrivalled combination of LMPAEK, design capability and manufacturing capacity of polymer, pre-pregs and parts

> READ MORE

Victrex's thermoplastic composites is a material of choice for aerospace components and structural parts, typically exposed to a combination of multiple complex engineering requirements, strict industry specifications and standards.

Victrex offers a range of polymers, pre-pregs and parts that enables design freedom to achieve significant weight reduction versus metal, cost reduction and improved manufacturing speed & efficiency – all at the same time.

Let us help your aerospace weight reduction and manufacturing efficiency to the next level.

Let's make change.



VIEW PROPERTIES & BENEFITS





PERFORMANCE MEETS PROCESSABILITY



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COST REDUCTIONS

System cost reductions can be realized by reducing manufacturing time and scrap, eliminating secondary processes, and designing integral functionality into the part.

(\$) DESIGN FREEDOM

Combining the mechanical performance of fibrereinforced composites with the design freedom of injection molding polymers allows for the design of complex parts, with good mechanical performance previously not thought possible.

WEIGHT SAVINGS

Hybrid solutions can deliver weight savings up to 60% compared to metal alternatives. Tailored designs offer equivalent or better mechanical properties such as strength, stiffness, and fatigue

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PART COUNT CONSOLIDATION

The design freedom made possible through innovative materials and manufactures enables engineers to think differently about design. Expanding the design window to parts integration can lead to reduced part count.

PROCESS OPTIMIZATION

Combining advanced process control techniques and state-of-the-art automation to achieve unrivaled production speeds without sacrificing quality. More at victrex.com /Composites Solutions

