

LIGHTWEIGHTING + METAL REPLACEMENT

TIER 1 AEROSPACE SUPPLIER

SEATING STRUCTURAL
COMPONENT

AVIENT SOLUTION

Complēt™ Long Hybrid (Carbon + Glass) Fiber
Reinforced PES Composite

WHY AVIENT?

- Lowered weight ~40% versus aluminum while maintaining the strength performance properties
- Formulated a PES material to satisfy flame, smoke, toxicity (FST) standards for commercial aircraft
- Passed and/or exceeded customer's impact testing specifications
- Provided an injection moldable hybrid glass/carbon fiber solution that enabled lower viscosity and better processability for thin wall parts

LEARN MORE

KEY REQUIREMENTS

- Reduce weight to improve fuel economy
- Pass FAA flame, smoke, toxicity requirements
- Meet structural requirements
- Simplify manufacturing process