KEY REQUIREMENTS

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

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

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