Potential saving of 53 million tonnes of CO₂* in 15 years if all of these new single-aisle planes could be made from 50% PEEK composites.

53M TONNES CO₂ REDUCTION

39,000+ new planes to enter service by 2040¹

76% of the new planes to enter service are single-aisle planes for short-mid haul flights²

50% of all new single-aisle planes with PEEK composites?

60% LIGHTER

PEEK composites can replace metal parts and be up to 60% lighter with higher specific strength⁶

>2M TONNES CO₂ SAVED with VICTREX PEEK solutions so far (2003-)

Unlike the B787 and A350s, Single-aisle planes are made mostly out of METAL³

WHAT IF WE COULD MAKE...

VICTREX IS PART OF THE CLEAN SKY 2 PROGRAM, PARTNERING WITH MAJOR AIRFRAMER TO CO-DEVELOP LARGE PRIMARY/SECONDARY STRUCTURE WITH PEEK COMPOSITES.

2.6 billion CO₂ reduction required in the aviation industry by CORSIA* between 2021-2035

2.6 M TONNES CO₂ REDUCTION

ACCELERATING THE REDUCTION OF CO₂ EMISSIONS IN THE SKY IN THE POST COVID WORLD

MINUTES VS. HOURS*

PEEK composites also speeds-up the parts manufacturing process helping airframers reduce backlogs⁷

*Approx 2% of CORSIA requirement

*Carbon Offsetting and Reduction Scheme for International Aviation

References:
1,2 – Airbus Global Market Forecast 2021-2040
3 – About 95%, source: https://www.intechopen.com/books/aerospace-engineering/the-evolution-of-the-composite-fuselage-a-manufacturing-perspective
4 – Based on Victrex calculation, details can be provided upon request
5 – IATA Fact Sheet “Climate Change & CORSIA” May 2018
6,7 – Victrex source, details can be provided upon request