



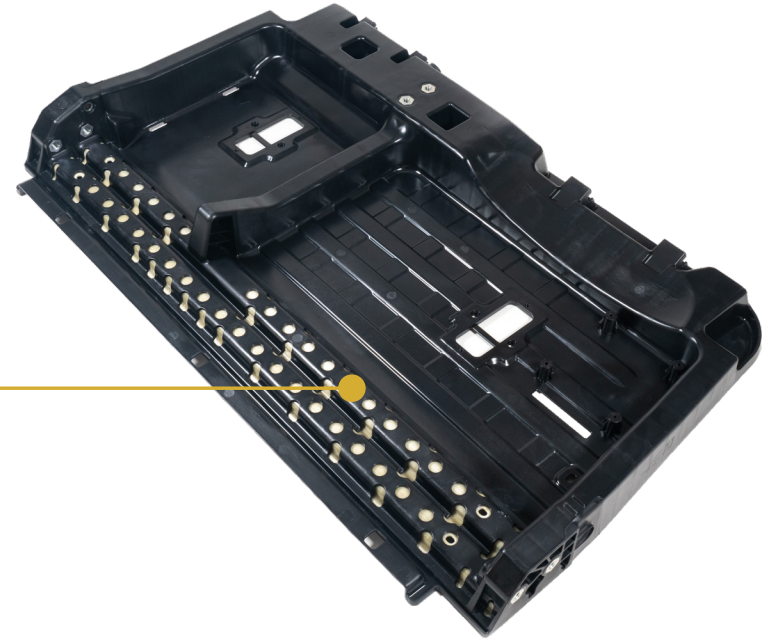
Toyota Tundra Composite Seatback

Challenge

Toyota was looking to design a seat structure that was lighter than previous models. L&L Products partnered with BASF and Flex-N-Gate to meet this challenge.

Solution

To create a molded 60% seatback, a Continuous Composite System™ (CCS™) profile was overmolded with BASF's impact-modified polyamide 6 Ultramid® B3ZG7 CR. CCS™ consists of a fiber-reinforced composite carrier with highly engineered sealants and adhesives in a two-dimensional profile. The seat structure is the first interior application for L&L Products' CCS™ technology that uses BASF's polyurethane pultrusion system Elastocoat® 74850.



Toyota Tundra Seatback

CCS™ technology enabled part reduction from 60 to 4.

Results

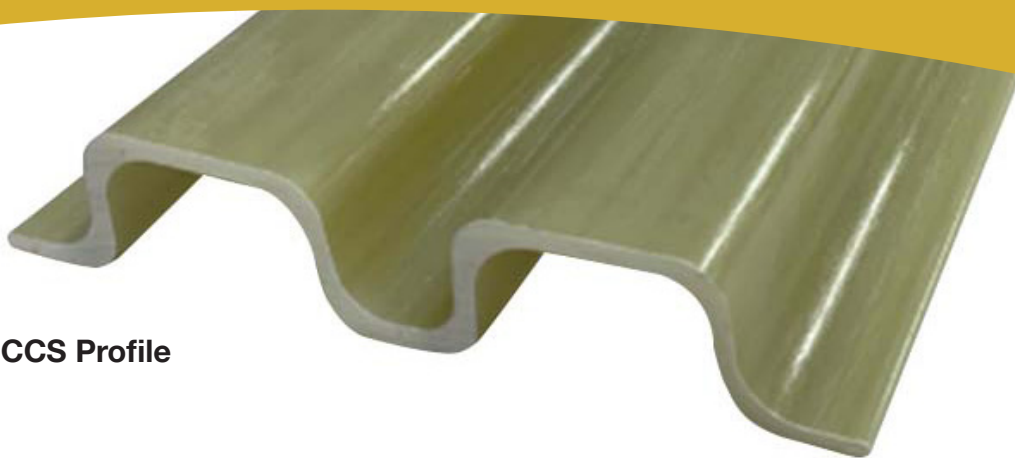
With the new design, we were able to eliminate an all-steel assembly which contained 60 stamped and welded parts and integrate only four composite parts, reducing the assembly and scrap costs associated with the metal seat structure. This also allowed for greater functionality of the seating system.”

BASF, Flex-N-Gate, Toyota, and L&L Products were awarded the prestigious Altair Enlighten Award for achievements in vehicle weight savings with the composite seatback design on the Toyota Tundra™.

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2022 Toyota Tundra



CCS Profile

