



Powertrain

Optimized Engine Cover

OEM/Vehicle

Ford Motor Company

2018 Ford F-150

System Supplier

Windsor Mold

Material Processor

Windsor Mold

Material Supplier

BASF

Resin

Ultradid B3WGM24 HPX PA6

Tooling/Equipment Supplier

Canam Tools Ltd.



The combination of MuCell, enhanced material, and innovative processing and part design resulted in a 32% weight savings compared to the incumbent cover. Enhanced colorant enabled a higher MuCell loading without compromise to the part. The process also provided uniform volumetric shrink which helped in part design and processing. Nominal wall stock was reduced to 2.0mm to aid in the overall weight savings of the part.