



Process/Assembly/Enabling Technologies

Cowl Panel & End Caps

OEM/Vehicle

Fiat Chrysler Automobiles
2018 Jeep Wrangler

System Supplier

The Plasman Group

Material Processor

The Plasman Group

Material Supplier

SABIC

Resin

CYCOLOY XCM840 PC/ABS

Tooling/Equipment Supplier

Build-a-Mold



This is the industry first horizontal metal to plastic cowl vent assembly. Novel over-molded inserts enabled the injection molding process to provide the part with a metal-like look and feel. This process eliminates the need to process three steel components. The panel and end caps were previously stamped, welded, hemmed, assembled and painted. The streamlined process resulted in a 56% weight savings compared to the previous assembly.