

Performance & Customization

OEM/Vehicle

**2010MY Chrysler Group LLC:
Dodge® Viper® ACR Supercar**

System Supplier

Prefix

Material Processor

Plasan Carbon Composites

Material Supplier

Evonik

Resin

High-Temp ETS Epoxy

Tooling/Equipment Supplier

Prefix



Carbon Composite Air Splitter & Dive Planes



A unique carbon composite with a special high-density, high-temperature core capable of surviving autoclave temperatures and pressures was used to produce an extremely thin, lightweight, precision air splitter and set of dive planes for the 2010MY Viper ACR supercar. The splitter is adjustable and produces extremely high downforce resistance of 1000 lb without deflecting more than 0.25 mm at 180+ mph. A fast-cure, UV-stabilized grade of clear epoxy resin (with visible carbon fiber weave on the surface) brings autoclave cycles down to an average of 10 min. The aerodynamic package went from concept to production in just 12 months.