



Dana Holding Corporation Cylinder Head with MuCell®

The Victor Reinz® Thermoplastic Cylinder Head Cover was created using the MuCell® process to reduce weight. By applying MuCell® – a microcellular foam injection molding process that injects nitrogen in a super critical state to create microscopic gas cells within plastic structures – Dana was able to successfully reduce component weight while still maintaining durability and stability. The resulting foamed structure replaces what otherwise would need to be a solid plastic part, creating improved product design flexibility and decreased use of plastic material for overall weight reduction.

Category:
**Enabling
Technology**

Application:
2015 Ford F-250 through F-550

Weight Savings:
29%
lighter than traditional
magnesium counterpart

Methodology:
Part Replacement