



## Powertrain

### Transmission Baffle

#### *OEM/Vehicle*

**Ford Motor Company**  
**2018 Ford Focus**

#### *System Supplier*

**Ford**

#### *Material Processor*

**Toledo Molding and Die**

#### *Material Supplier*

**Dupont Automotive**

#### *Resin*

**Hytrel 7246 TPE**

#### *Tooling/Equipment Supplier*

**Toledo Molding and Die**



Unique part geometry and CFD (Computational Fluid Dynamics) studies led to the design of this new baffle for injection molding enabling seal elements and fluid flow passages for improved transmission performance - not possible before in a stamped metal component. Transmission efficiency was improved by 8% resulting in up to 0.5 mpg economy. A reduction of 50% in weight and 40% in cost (\$1 per transmission) was gained compared to a metal part with molded seal elements. The TPE material is recyclable reducing its carbon footprint.