



Powertrain

Graphene Reinforced Polyurethane Foam

OEM/Vehicle

Ford Motor Company

2018 Ford F-150

System Supplier

Eagle Industries

Material Processor

Eagle Industries

Material Supplier

XG Sciences

Resin

EagleZorb SA-04G PU

Tooling/Equipment Supplier

Eagle Industries



This is an industry first, cost neutral, application of graphene as a reinforcement and noise reduction material in polyurethane foam for under hood pump and rail covers. This improves foam properties while using very small concentrations of graphene (<0.5). Graphene reduces sound transmission by 17%, increases compression strength by 20% and increases heat sag properties by 30%. The manufacturing process used to produce the graphene is performed without chemicals and produces no by-products, either hazardous or non-hazardous.