



OEM/Vehicle

**General Motors
2018 Cadillac CTS**

System Supplier

GDC Incorporated

Material Processor

GDC Incorporated

Resin

Enduraprene 2390/2195Re TPO

Tooling/Equipment Supplier

GDC Incorporated

Environmental

**Ultra Capacitor
Barrier Shield**



This application uses material recycled from tires and plastic caps to make TPE shields to protect the ultra capacitor from the hotter surrounding environment by deflecting heat away from it. This has prevented 5,000 tires and 25,000 lbs of plastics from landfills to date. Die cutting, thermoforming and vibration welding is used to produce this part for the first time, opposed to 2-shot injection molding, resulting in an \$80,000 savings in tooling compared to tooling for steel or aluminum used previously. A 16 week same save is also achieved. Consumers benefit as the heat shields keep the battery cool preventing possible battery failure. This application can be translated to other exterior applications.