



Chassis/Hardware

Powertrain Mounting Clevis Bracket

OEM/Vehicle

**General Motors
2017 Cadillac XT5**

System Supplier

Hutchinson

Material Supplier

BASF Corporation

Resin

**Ultramid A3WG10 CR BK00564
PA66+50%GF**



This engine clevis bracket is the first composite mount designed for a 6 cylinder engine, and passing peak loads of 25 Kilo-newtons of force. The injection molded part replaces metallic solutions (stamping, welding and die-casting) used previously resulting in a 45% weight save. NVH was also improved (reduction in cabin noise) due to the damping characteristics of the polyamide compared to aluminum. Corrosion resistance is improved and the part can be recycled at end of life. Seven clevis brackets were developed for different powertrain combinations and there are no warranty claims after 1.5 years of production