



Chassis / Hardware

High Strength Self-tapping Composite Nut

OEM/Vehicle

Fiat Chrysler Automobiles
2016 Chrysler Pacifica

System Supplier

ITW Deltar Fasteners

Material Processor

ITW Deltar Fasteners

Material Supplier

Asahi Kasei

Resin

Leona 90G55 PA66

Tooling/Equipment Supplier

Maple Mold



This composite nut has self-healing properties enabling it to maintain sufficient torque and clamp load even after it has been stripped, unlike the metal nut that this composite nut replaces. Total mass savings is 8g per location x 121 locations for a total vehicle mass savings of 2.1 lbs specific to the Chrysler Pacifica. The estimated cost savings per vehicle is \$3.25. The composite nut can be translated across all OEMs and in many additional applications.