



## Process/Assembly/Enabling Technologies

### Headliner with Integration of Components

#### *OEM/Vehicle*

Volkswagen AG

2018 Audi A8

#### *System Supplier*

Grupo Antolin

#### *Material Processor*

Grupo Antolin

#### *Material Supplier*

BASF

#### *Resin*

Various

#### *Tooling/Equipment Supplier*

Grupo Antolin



An improvement in headliner and components dimensional stability was achieved by attaching them during the compression molding process. New grades of resin were developed to withstand the extreme temperature and pressure of the process. A solvent free adhesive was used for reduced VOC emissions. New tooling was developed to ensure component positioning location and repeatability. A cost savings of approximately \$0.50 per headliner and an investment reduction of \$300,000 (secondary assembly station savings) was achieved.