



**Safety**

## Interlocking Mechanism Design for Side Impact

### *OEM/Vehicle*

Ford Motor Company  
2019 Ford Transit Connect

### *System Supplier*

Faurecia Interior Systems

### *Material Processor*

Thermolympic SL

### *Material Supplier*

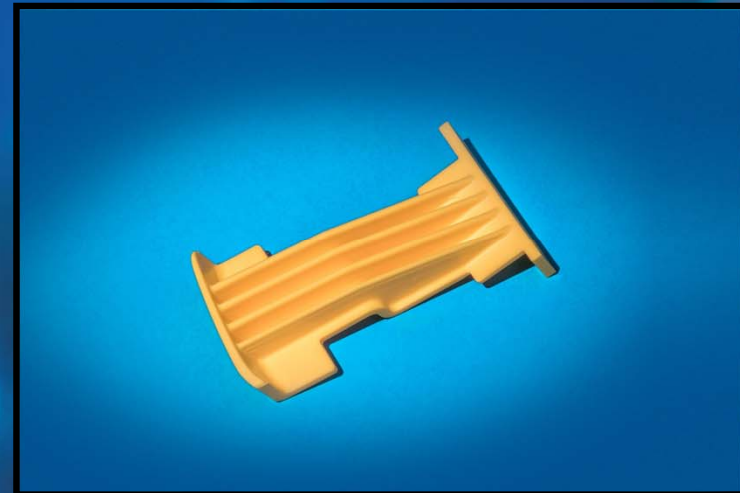
Trinseo

### *Resin*

Magnum 3325MT ABS

### *Tooling/Equipment Supplier*

Meymol SL



This interlocking mechanism improves door trim performance during side impacts by preventing fracture or separation of components that could cause sharp edges. This patent pending design provides strong attachment, force absorption and high impact resistance between two components during side impact. It replaces the need for metal bracket reinforcement solutions (avoiding 3.70k in weight per vehicle). A cost avoidance savings of \$30.60 per vehicle and a tooling investment of \$9.88 million is achieved.