

## OPTIMIZING PART THICKNESS: 2018 ŠKODA OCTAVIA FRONT BUMPER

**SOLUTION STORY: EXTERIORS** 

## **HIGHLIGHTS**

- Molded with SABIC® 8650 PP compound
- Thickness-optimized solution (2.5 mm)
- Up to 10% mass reduction, 7% weight savings
- · High melt flow
- Excellent impact-stiffness balance
- Low shrinkage
- · Cost-out
- 2017 SPE TPO Conference Innovation Award, Exterior category



ASSEMBLY & ENABLING TECHNOLOGIES

## **SHORT STORY**

Working with Magna Exteriors to support this program, SABIC provided a polypropylene compound material solution to achieve a 2.5 mm thin-wall molded fascia. The material with high melt flow, high stiffness/impact allowed for less material to be used resulting in a 10 percent reduction in mass for a 7 percent weight savings and substantial direct cost savings.

Magna Exteriors uses a torsional welding process, which features a high-speed twisting motion that creates enough friction-based heat to join a plastic bracket to the thermoplastic fascia.

## **CONTACT US**

Reach out to learn more about solutions from SABIC for bumper systems. Email us at <u>automotivesolutions@sabic.com</u>.

