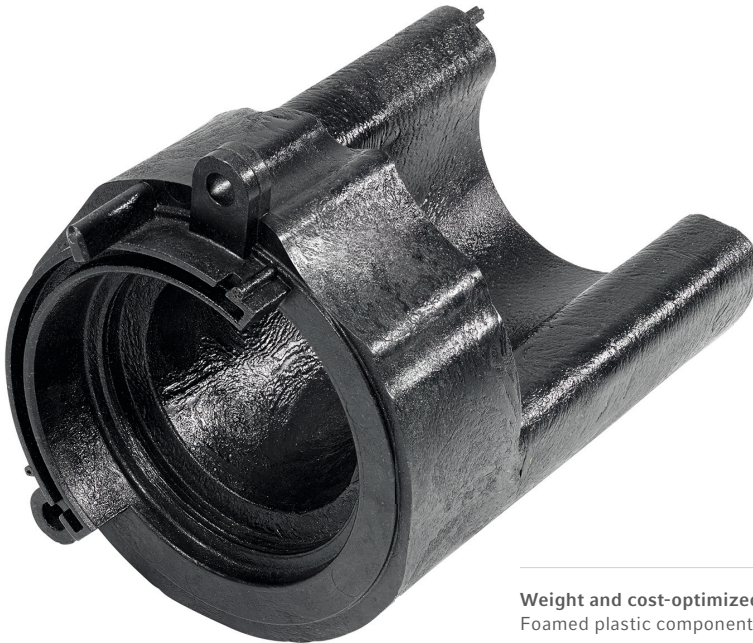


FACT SHEET

# Foamed plastic components

SUITABLE FOR E-MOBILITY APPLICATIONS



Weight and cost-optimized  
Foamed plastic components made by ElringKlinger

Foaming technology allows thin and thick-walled light components used to displace oil in transmissions reducing the overall weight and minimizing splash losses. Moreover, the same technology can be applied to foam oil drain plugs swimming on the oil during engine's service.

## Technology

Foaming agents added to the plastic granulate expand the melt in the tooling to a foam with a closed surface. The part is formed with a standard injection molding process with adjusted process parameters. This process lowers the specific density down to approximately 0.4 g/cm<sup>3</sup>.

# Benefits

- + High weight reduction potential
- + High level of design freedom and dimensional accuracy
- + Less oil needed to fill the transmission housing
- + Less splash losses / churning in the transmission
- + No rework on structures necessary
- + High process stability and repeatability



## ELRINGKLINGER – YOUR PARTNER FOR FOAMED PLASTIC COMPONENTS

Product Development (Design, Engineering and Simulation) – Process Development – Tool Shop – Tool Sampling/Prototyping – Testing – Change-Management – Series Production – Part Measurement

## YOUR CONTACT

ElringKlinger AG  
Phone +49 7123 724-0  
E-mail [info@elringklinger.com](mailto:info@elringklinger.com)

ElringKlinger AG | Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany  
[www.elringklinger.com](http://www.elringklinger.com)

The information provided in this document is the result of technological analyses and may be subject to changes depending on the design of the system. We reserve the right to make technical changes and improvements. The information is not binding and does not represent warranted characteristics. We do not recognize any claims for compensation based on this information. We accept no liability for printing errors.



08/23