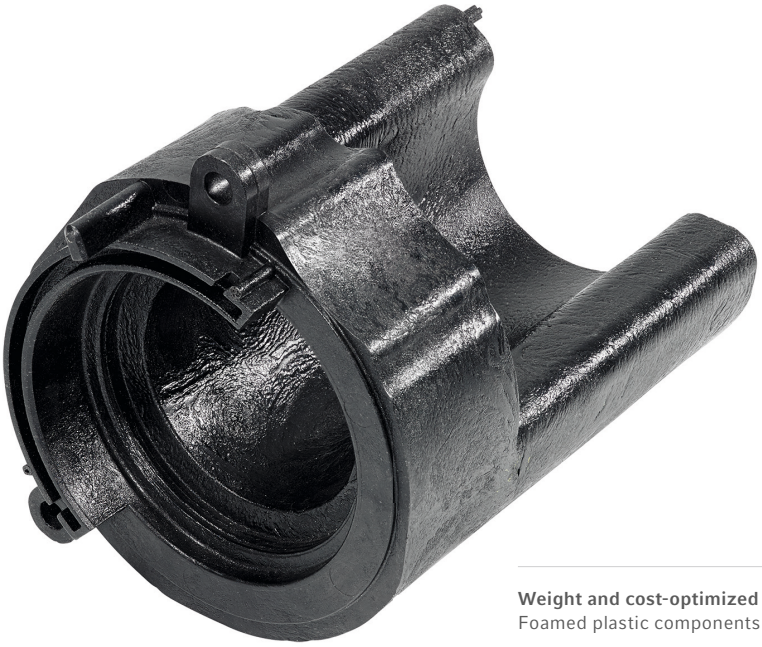
FACT SHEET

Foamed plastic components

SUITABLE FOR E-MOBILITY APPLICATIONS



Weight and cost-optimized
Foamed plastic components made by ElringKlinger

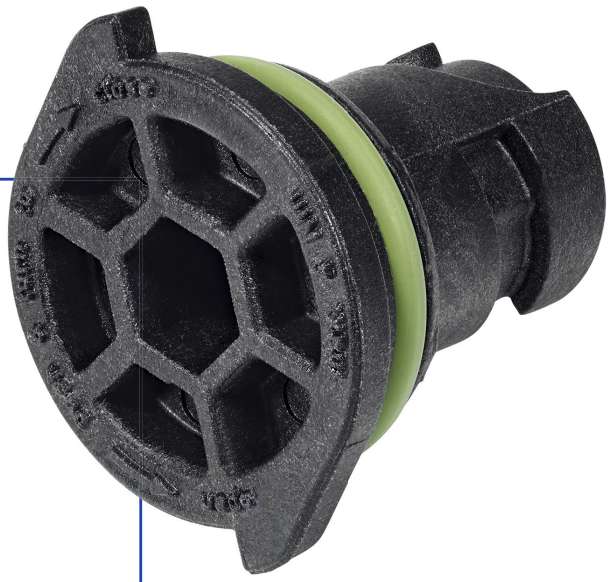
Foaming technology allows thin and thick-walled light components used to displace oil in transmissions reducing the overall weight and minimizing splash losses. Moreover, the same technology can be applied to foam oil drain plugs swimming on the oil during engine's service.

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^3.

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

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