

# Plastic oil pan for passenger cars



## GENERAL FUNCTION

Plastic oil pans offer higher functional integration, less costs and weight in comparison to metallic oil pans. Moreover, bigger volume for the engine's oil is provided which leads to longer service intervals. Various functions can be integrated, the complete module reduces the components during the assembly of the engine.







## TECHNOLOGY

Classical injection molding process with polyamide, reinforced with short glass fibers. RTV sealing technology in combination with the plastic oil pan brings up further cost potentials. In addition, tailored ribbing structures and appropriate designs improve NVH and stone impact behavior. Smart solutions like a foamed plastic drain plug improve the usability of the complete module as the plug swims always on top of oil while servicing the engine. (For further details please see fact sheet "Foamed components".)




## BENEFITS

### PRODUCT BENEFITS

-  ▪ High weight reduction potential
-  ▪ Multi functional integration (sensors, oil drain plug, attachment points, wiring, clips etc.)
- Reduction of bolts feasible
-  ▪ Excellent stone impact and NVH behavior
- High static loads on the pan feasible
- Sealing already integrated or potential usage of RTV as sealing agent
- High dimensional accuracy
-  ▪ Cost reduction



## MANUFACTURING PROCESS

- No machining afterwards needed
-  ▪ High process stability and repeatability



## ELRINGKLINGER – YOUR PARTNER FOR OIL PANS

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



## YOUR CONTACT

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