



# MOLDED PARTS

Molded parts are customer-specific sealing elements. They can be manufactured based on a reference sample, a drawing or a specially created design. At the same time, they can be precisely adapted to the installation conditions and the parameters of the application.

Elastomers and thermoplastics in various qualities are available for the production of molded parts. In addition, elastomer-metal composites (2-component parts) can be realized. The possibilities range from the production of hand samples from pilot molds, to extremely small production runs all the way to series production. Depending on the volume, required quantity and geometry, molded parts are produced in injection, compression or transfer process.

## EXAMPLES OF APPLICATIONS

- Electrical industry
- Plant and machinery/ mechanical engineering
- Hydraulics
- Building systems/ engineering
- Gas springs
- Automation/ conveyor systems
- Renewable energy
- Food and pharmaceutical industries

## TYPICAL MOLDED PARTS

- Grommets
- Buffers and damping rings
- Oil and air filter seals
- Housing seals
- Profile seals in accordance with DIN 3869 for screw connections
- Seals for plug connectors and sensors
- Seal profiles for cable feed-throughs
- Seals for valves, fittings, armatures and screw connections

## MATERIALS

Typical materials for molded parts include NBR, FKM, EPDM, VMQ, FVMQ, HNBR, AEM, ACM, SBR, PTFE and TPU. In addition to standard materials, there are also special materials available for low temperature applications, with special chemical resistance or very good compression set. Some compounds have been developed and tested for industry-specific applications. The results from long-term tests or tests in special media (RME, oil and fuels) are considered in the selection of the material. Reference testing based on automotive standards have been carried out on some materials. Other application-specific material certifications for the food industry and type examination certificates, for gas facilities and drinking water lines, among other uses, are increasing the range of different applications. To make mounting easier, molded parts with surface coatings, based on PTFE and silicone, and MoS<sub>2</sub> can be provided.

The information contained herein is considered to be reliable, but no assurances, warrants or guarantees whatsoever, of any kind, are provided with regard to their correctness or suitability for any purpose. The information reproduced herein is based on the current state of the technology and is not necessarily indicative of the performance of the end product. Complete testing and the performance of the end product are the user's responsibility.