

2K PUMP HOUSING



Freudenberg's innovative 2K pump housings are made from plastic for oil or water circulation and offer significant weight reduction over traditional pump housings. In addition, our 2K pump housing provides for optimally molded flow channels that will support pump function.

Our unique multi-component injection molding process makes the 2K pump housing an efficient and innovative product by combining both the process and assembly steps. Our one-of-a-kind molding process offers engineers the ability to design the 2K pump housing to their exact application needs when supported by our product development and design engineers.

By applying 2K technology to pump housings, it is now possible to create complex geometries (diagrams below), sealing geometries not available with traditional assembly solutions. Additionally, they can be integrated on both sides of the product. The pump housings are injected directly and adhered onto the hard plastic material so that it chemically bonds both the hard and soft components. This guarantees a leak-proof solution that greatly increases the product's safety.

VALUES FOR THE CUSTOMER

- Delivers significant weight reduction
- Wide choice of high-performance materials with both hard and soft components has the ability to fit every application need
- Chemical bonding between hard and soft component materials reduces risk of leakage, improves quality
- Realization of complex 3D sealing geometries that would not be possible in an assembled version
- Reduction in components due to the merged carrier and sealing assembly
- Optimal design of sealing lips according to assembly needs, assembly comfort, and tightness safety considering adjacent parts

FEATURES AND BENEFITS

- Optimally formed and sealed flow channels
- Weight reduction supports reduction of emissions
- High freedom of design
- Increased safety on sealing function with reduced leakage risks

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