Freudenberg Sealing Technologies’ 2K-Housing serves to protect electrical components from vibration and environmental damage. This innovative component integrates both the housing and a seal into a customizable lid, maximizing its protection ability. Our 2K-Housing not only serves as a static sealing solution, but it also reduces dynamic loads and optimizes the sealing function against the connecting part, providing superior tolerance compensation, even within large temperature variations.

Our unique multi-component injection molding process makes the 2K-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-Housing to their exact application needs when supported by our product development and design engineers.

The 2K-Housing has the ability to withstand wide temperature fluctuations and environmental conditions. That allows manufacturers to replace traditional metal components with high-performance plastics which significantly reduces overall weight in the application while increasing efficiency and, at the same time, saves assembly time and increases assembly comfort.

VALUES FOR THE CUSTOMER

- Wide temperature range, between −40°C to 180°C
- Delivers significant weight reduction
- Wide choice of high-performance materials available with the ability to fit every application need
- Realization of complex 3D sealing geometries that would not be possible in an assembled version
- Reduces assembly processes
- Reduction in components due to the merged carrier and sealing assembly
- Chemical bonding between hard- and soft-component materials reduces risk of leakage, improves quality
- Customizable design with the potential to integrate additional functions such as additional sealing functions, damping functions, acoustic shielding, bearing surfaces, easy-to-assemble clip solutions, etc.

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.