

2K-HOUSING



Freudenberg Sealing Technologie's 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.



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