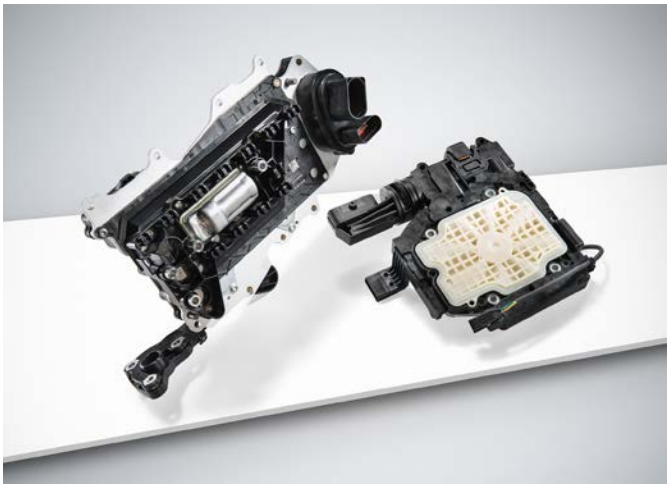
Specified polyamide Ultramid® EQ for sensitive automotive electronics

Case Study



For reliable micro-electronics in sensitive automotive applications such as control units and sensors, BASF has now developed a portfolio of various polyamide 6 and 66 grades that help prevent damage to circuits by electric corrosion. The different Ultramid® EQ grades (EQ = electronic quality) are extremely pure, which means they have hardly any electrically active or corrosion-generating contents, yet still offer good resistance to heat aging. They are subject to special quality tests that cover raw material selection, the production process, and the analysis of the halogen content. Available globally, the portfolio consists of uncolored and black grades with glass fiber contents of 30 and 35 percent, which are also laser-markable. Ultramid® EQ has already proven itself in a range of applications under harsh conditions.

All Ultramid® EQ grades have an organic heat stabilizer with a very low halogen content of less than 1 ppm. This prevents halogens like iodine or bromine from damaging metal wiring, ions from reacting with the metals, and undesired electric currents from arising. In addition to the specified formula and complex production process, all Ultramid® EQ charges are checked carefully. This ensures that the manufacturing process does not introduce any halogen contamination to the material. The relevant certificate is provided to customers if desired. The new Ultramid® EQ portfolio is also well-suited for use in electric and hybrid vehicles with elevated AC and DC voltages.