Puzzling cutlery made of Ultramid® from designers at ding3000

Case Study

The JOIN puzzling cutlery is made of the engineering plastic Ultramid® A3EG6 FC, a food contact-approved special polyamide. This high-quality plastic cutlery with the innovative design is the creation of the three co-owners of the design studio ding3000 in Hanover. It is not, however, limited to serving as an eating utensil: It also serves as brain-teaser, conversation piece and table decoration. The team at the BASF designfabrik® contributed to its development and design. The cutlery is produced by Konstantin Slawinski, whose company has been known for manufacturing unusual household products with a certain design appeal for several years.

The experts at the BASF designfabrik® were able to assist ding3000 in selecting the right plastic and converting the product idea into reality. They remedied weak spots by testing and optimizing the design on a virtual prototype using the Ultrasim® simulation tool. The glass fiber-reinforced special polyamide Ultramid® A3EG6 FC is not only approved for food contact (FC: food contact); it is tough, heat-resistant, dishwasher-safe and can be easily colored. These characteristics make this Ultramid® the right cutlery material when it comes to meeting the requirements for this rather unusual application for an engineering plastic. Because of the material's inherent strength, it was possible to come up with a more delicate design than that typical of most common plastic cutlery. The heat resistance of the material allows hot foods to be cut, while the attractive, finely serrated knife blade that the ding3000 team developed will retain a durable cutting edge.