

## Abstract Technical Article

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## Designed to Bring Your Space to Life

### Finding the Most Suitable Method for Creating Products in Time

*In 2018 the startup company "TAILOREDTILE" designed a plastic part that allowed people to decorate their walls. The part itself has a simple geometric shape that can be customized by the customer. However, there are always small details every engineer needs to consider when designing a new part, especially when choosing injection molding for production.*



*In the beginning of each project questions such as the following will arise: What are in fact the specific technical challenges of this part? What will be the right monetary value for a product like this? How can quality issues and time delays be avoided upfront by the tool designer? What is the ideal injection molding process to produce this part in a demanding market? All of these and more questions can be answered upfront by utilizing modern simulation approaches such as SIGMASOFT® Virtual Molding.*

*In this specific project the customer struggled a while to obtain parts which meet the market needs. Additionally, the costs and time lines were always critical due to lack of knowledge in the field of injection molding. They finally got in touch with SIGMA and by utilizing up-to-date*

*simulation approaches they could make sound decisions for their product, thus being able to enter the demanding international market.*

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For 23 years, SIGMA Engineering GmbH has been driving the development of the injection molding process with its simulation solution SIGMASOFT® Virtual Molding. This virtual injection molding machine enables the optimization and development of plastic components and molds as well as the mapping of the entire production process. The SIGMASOFT® Virtual Molding technology combines the parts 3D geometries with its tooling and temperature control system and integrates the parameters of the production process. This ensures a cost-efficient and resource-saving production as well as high-performance products - from the first shot.

SIGMASOFT® Virtual Molding integrates a multitude of process-specific models including 3D simulation technologies that have been developed and validated over decades and are continuously optimized. The SIGMA Solution Service and Development team supports its customers technical goals with application-specific solutions. The software company SIGMA offers application engineering, training, direct software sales and as a result, a software straight from its developers and designers to help give a solution service by engineers all over Europe.

SIGMA Engineering GmbH, headed by Managing Director Thomas Klein, has subsidiaries in the USA, Brazil, Singapore, China, India, Korea and Turkey. In addition, SIGMA supports its users worldwide in a variety of international companies and research institutions with its Virtual Molding technology.  
Further information: [sigmasoft.de](http://sigmasoft.de)