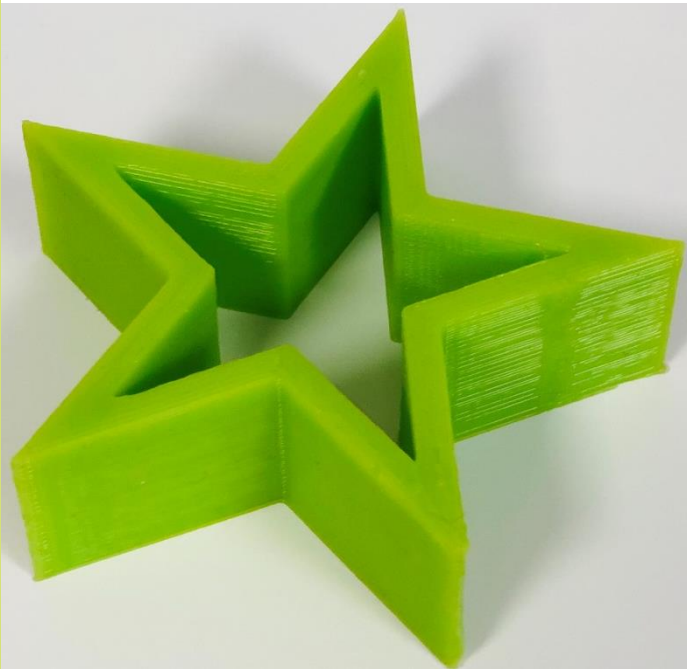


## When antimicrobial silicone and 3D printing become one !

*In 2016, STERNE, specialist in manufacturing silicone items, developed a new additive manufacturing technology by depositing filaments using a 100%UV cured silicone. In 2018, the company improved its technology on filaments thinness and its capacity to print from little to medium series.*



Today, the SME combines technological and material developments by bringing together 3D printing and antimicrobial silicone. The interest is to avoid the development of bacteria both inside and outside the product, to improve items hygiene and thus strengthen its immune barrier. This specificity also allows the silicone to avoid being impregnated with odors.

As reminder, the additive manufacturing technology by depositing filaments allows printing layers from 0.55 to 0.1mm (100 microns). A panel of colors is available, for materials meeting quality requirements according to FDA or USP class VI medical grade. SiO-shaping 3D silicone printing technology offers the following possible manufacturing dimensions: 205 x 200 x 100 mm allowing to print very small pieces till medium one into a range of hardnesses from 30 to 60 Shores A, according to standard tolerances of ISO 3302-01 :2014 (M2).

With an experience of 23 years in the silicone industry, STERNE is specialized in manufacturing products made of silicone, mainly in the medical sectors. Whether High Consistency Silicone Rubber (HCR) or Liquid Silicone Rubber (LSR), Sterne masters a large range of manufacturing process such as extrusion, molding, making, over-molding, inside ISO 6, ISO 7 and ISO 8 cleanrooms. This additive manufacturing technology enlarges STERNE knowledges, to meet needs requiring thinness, technical know-how and short deadline.

### PRINTER PROPERTIES

- **Maximum print dimensions, in mm:** 205 x 200 x 100 (l x w x h)
- **Minimum printing layer:** 0,1mm
- **Hardness** from 30 to 60 Shores A
- **Colors :** translucent (all translucent colors), opaque (red, green , yellow, black ...), phosphorescent

The company Sterne will be pleased to meet you on K2019 Hall 8A Stand E23

More information about K2019:

<https://www.k-online.com/>

Medica Compamed Hall 8B Stand L02.

More information on COMPAMED:

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