

Microtechnological products and components made of glass for

sensors and electronics

mikroglas chemtech GmbH develops and produces different components for sensorial and electronic applications using a special etching technology. Among other glasses we mainly use FOTURAN® for these products. Together with you we will work out an individual solution, which corresponds with your requirements in functionality and design. Do you have a special request ?

What advantages does glass offer for sensors and electronics ?

- ! excellent temperature stability
- ! high electrical insulation
- ! high chemical stability

Technological abilities

- ! Generating various structures in glass e.g. holes and meanders
- ! Thin film deposition, e.g. for micro manufacturing of thin membranes, or conducting layers
- ! various bonding technologies also possible with other materials

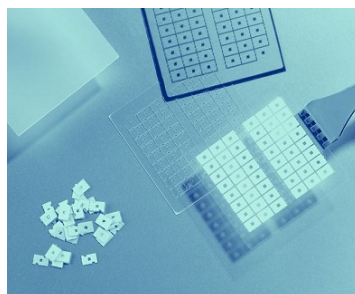
Diffusion bonding: FOTURAN®/FOTURAN®
FOTURAN®/other glasses (B270)

Soldering: FOTURAN®/FOTURAN®
FOTURAN®/ceramic
FOTURAN®/silicon

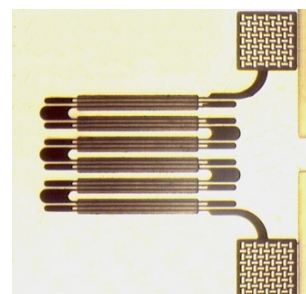
Gluing: possible with different materials

Applications

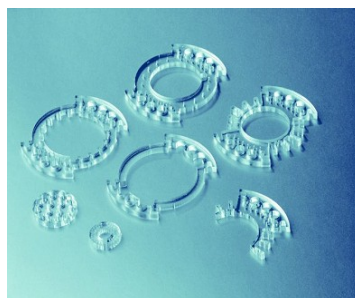
- ! electronic packaging (encapsulation of chips)
- ! shadow masks for structured coatings
- ! flow sensors
- ! temperature sensors
- ! sensor housing
- ! inkjet print heads



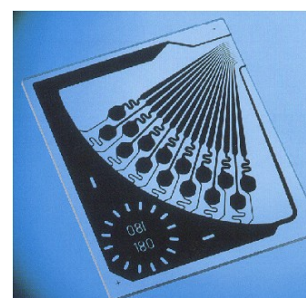
flow sensors



temperature sensors



sensor housing



inkjet printhead



mikroglas chemtech GmbH
Galileo-Galilei-Str. 28
55129 Mainz, Germany
Phone: +49-6131-55550-0
Fax: +49-6131-55550-52
info@mikroglas.com
www.mikroglas.com