

# Silicone keyboards

## Silicone keyboards



**Silicone mats are particularly cheap for mass production purposes in comparison to other keyboard technologies. They are stable and reliable and offer almost unlimited opportunities for designs.**

The colours and shapes of key caps can be freely defined. Silicone mats are made from highly elastic, toxin-free silicone rubber. The mats are created by moulding them from the basic materials that are fused together at a defined temperature and pressure. A special tool is necessary for each model.

There is usually a conductive carbon pill for each key on the bottom side. The lower contact part is normally formed by meander-shaped conductors on a film or printed circuit board base.

### Tools for silicone mats

The tool for the silicone mats is made of a special alloy. It is produced using extremely accurate CNC milling and eroding machines. Several silicone mats can be ideally produced using one mould. As a result, we are able to pay attention to optimising the production process at a later stage when manufacturing the tools.

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### Crucial technology benefits

- Excellent chemical resistance
- Impervious to dirt and water
- Good tactile feel for the individual keys
- Reliable contacting on the printed circuit board
- Almost unlimited design opportunities
- Coating possible on the silicone
- Can be delivered with plastic caps as an option
- Suitable frame can be supplied
- Several colours available on one silicone mat
- Illuminated versions possible
- Low-cost batch production