

Silicone keyboards

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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

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