

Microfluidic Chip

Sumitomo Riko is developing and manufacturing microfluidic chips using our unique highly transparent silicone material (PDMS) based on silicon rubber molding and fine processing technology.

Highly transparent silicone material has excellent transparency, flexibility, oxygen permeability and transferability. It is suitable for the production of fine structures.

- Low-cost **disposable** material

- Shape, width & depth can be **freely designed, changed**

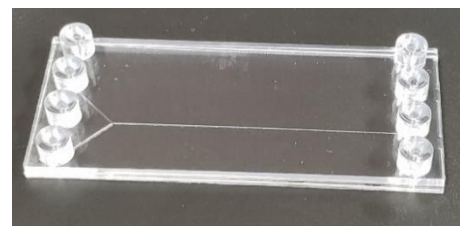
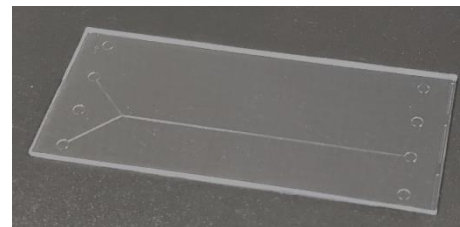
- **Multi-layer 3D structure** is possible with the bonding

- **Hydrophilic/hydrophobic control** by surface modification

- **Rubber hardness** can be adjusted freely

- **Prevention of dust adsorption** in a clean room

- **Prototype to mass production** of tens of thousands



Customer needs

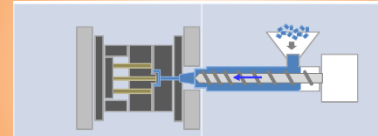
Support from Prototype to Mass Production

Highly transparent material



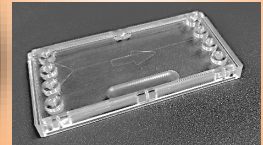
"No autofluorescence
(Easy to observe)"

ASSY/resin molding



"Improved usability"

ASSY product
provision



Resin cartridge etc.

In house Resist mold



"Low cost" "Quick delivery"

Clean room (class=1000)



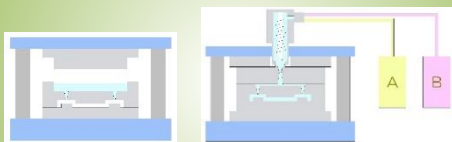
"contamination free"

Surface modification (plasma-treatment)



"Adhesion/hydrophilicity/water
repellency/barrier, etc."

Molding (transfer, LIM)



"Small volume and variety"
"Mass production"

Inspection



"prevent defective"

Parts Provision

