



What are the characteristics and advantages of silicone products

There are more and more applications of silicone products, and many friends may often use them, but they may not know much about other information about the product itself. [silicone molding manufacturer](#) What is silicone in the traditional sense? What are the advantages? Silica gel is a kind of rubber. The adsorption capacity of silica gel for water is large, the regeneration temperature is low, and the price is cheap. The good performance of silica gel is often made into high temperature resistant silica gel strips and silica gel plate products. Many products on the market use silicone rubber. So what are the characteristics and advantages of silicone products?

Features and advantages of silicone products

1. High temperature resistance: The applicable temperature range is -40 to 230 degrees Celsius, and it can be used in microwaves and ovens. The bowls, plates, and lunch boxes that can be placed in the microwave are all made of silica gel.
2. Easy to clean: The silica gel products produced by silica gel can be cleaned after being rinsed in clean water, and can also be cleaned in the dishwasher.
3. Long lifespan: The chemical properties of silica gel are very stable, and the products made have a longer lifespan than other materials.
4. Soft and comfortable: Thanks to the softness of the silicone material, the cake mold products are comfortable to the touch, very flexible and not deformed.
5. Variety of colors: according to the needs of customers, different beautiful colors can be deployed. Personalized styles can be customized,
6. Environmental protection and non-toxic: no toxic and harmful substances are produced from the raw materials entering the factory to the finished product shipment.
7. Electrical insulation performance: Silicone rubber has a high resistivity, and its resistance can remain stable in a wide temperature range and frequency range. At the same time, silica gel has good resistance to high-voltage corona discharge and arc discharge, such as high-voltage insulators, high-voltage caps for TV sets, and electrical components.
8. Low temperature resistance: The lowest temperature critical point of ordinary rubber is -20 degrees to -30 degrees, but silicone rubber still has good elasticity from -60 degrees to -70 degrees. Some specially formulated silicone rubbers are still Can withstand extremely low temperatures, such as low-temperature sealing rings.
9. Conductivity: When conductive fillers (such as carbon black) are added, silicone rubber has

good conductivity, such as keyboard conductive contact points, electric heating element parts, antistatic parts, high-voltage cable shields, medical physiotherapy conductive films, etc.

10. Weather resistance: Ordinary rubber is rapidly degraded under the action of ozone generated by corona discharge, while silicone rubber is not affected by ozone, and its physical properties have only minor changes under ultraviolet light and other weather conditions for a long time, such as outdoor Sealing materials used, etc.

11. Thermal conductivity: When some thermal conductive fillers are added, silicone rubber has good thermal conductivity, such as heat sinks, thermally conductive gaskets, photocopiers, fax machine thermal rollers, etc.

12. Radiation resistance: The radiation resistance of silicone rubber containing phenyl groups is greatly improved, such as electrically insulated cables and connectors for nuclear power plants.

Liquid silicone machines are widely used in the fields of liquid silicone products such as medicine, food, baby products, diving products, electrical insulation accessories and cable accessories.

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[How many kinds of silicone mold making process are there?](#)