

Silicone Rubber Sheet 3

By [Silicone Rubber Sheets](#) - www.dongrubber.com, sales@dongrubber.com, Date: Sep.19.06

The basic characteristic of the phenyl [silicone rubber](#) is: with the general characteristics of silicone rubber; Low temperature characteristics are improved, brittleness temperature reaches -115°C ; Radiation resistance, burning resistance is excellent; Phenyl content increasing, the mixing process becomes poor, the oil resistance of vulcanized rubber, compression permanent deformation are low, etc.

Phenyl silicone rubber is mainly used in coating, production of o-ring, oil seal, all kinds of pipes, such as sealants and adhesives.

(4) The fluorine silicon rubber. Fluorine silicone rubber introduced fluorine alkyl or fluorine aryl on the molecular side chain of methyl vinyl silicone rubber to make polymer. It has excellent oil resistance, solvent resistance, but high temperature resistant, low temperature performance are poorer than methyl vinyl silicone rubber, its working temperature scope is to $50 \sim 250^{\circ}\text{C}$. Fluorine [silicone rubber sheet](#) has many varieties, but varieties get widely used are only three fluorine propyl methyl vinyl silicone rubber or three fluorine propyl methyl vinyl silicone rubber, fluorine silicon rubber for short, also known as silicon fluorine rubber, code-named MFVQ. Its stability to aliphatic, aromatic, and chlorinated hydrocarbon solvents, petroleum base all kinds of fuel oil, lubricating oil, hydraulic oil, and some synthetic oils (such as lubricating oil, hydraulic oil, vinegar silicate vinegar class) at room temperature and high temperature is very good. The basic characteristic of the fluorine silicon rubber is: having same excellent cold resistance and low compression permanent deformation of silicone rubber; Oil resistance significantly improved; The cost is high.

Fluorine silicone rubber is mainly used in military industry, auto parts, petrochemical industry, medical health, and on the electrical and electronics industries which has special oil resistance, solvent resistance, resistance to high and low temperature use products, such as moulded products, o-ring, gasket, rubber hose, seals and sealant glue, adhesive agent, etc.

2. Room temperature vulcanized silicone rubber

Room temperature vulcanized silicone rubber is which doesn't need to be heated, vulcanization silicone rubber at room temperature, it is active low relative molecular mass and end or side base having thickens liquid thickens, all in the form of rubber in the market for sale. According to the form of commodity packaging it has one-component room temperature vulcanization [silicone rubber](#) and two components RTV silicone rubber. The former is based on raw rubber, filler, crosslinking agent and catalyst under the condition of no water evenly mixed, and sealed packaging, out of contact with the moisture in the air, using vulcanization condensation to get elastomer. The latter is to separate packaging of based rubber with crosslinking agent or catalyst. Can be divided into the condensation type and adding type according to the mechanism of sulfide. Molding room temperature vulcanization silicone rubber except has high temperature vulcanization silicone rubber resistant to oxidation, broad high and low temperature resistant, cold resistant, resistant to

Silicone Rubber Sheet 3

By [Silicone Rubber Sheets](#) - www.dongrubber.com, sales@dongrubber.com, Date: Sep.19.06

ozone, good electrical insulation, physical inertia, ablation resistance, moisture resistance and other properties, but also has advantages like convenient use, in situ forming, pressure does not need special heating equipment, etc, and can appropriately changed fillers, additives and the structure of the polymer, especially all kinds of crosslinking agent and catalyst, which made a lot of different properties varieties. Therefore, foreign sales of various grades of this kind of [silicone rubber sheets](#) are a lot, widely used in electronics, electrical appliances, instruments, aviation, spaceflight, architecture, medicine, automobile transportation, chemical industry, light industry, ship manufacturing, high energy physics and national defense war industry and so on various industry sectors, as a filling, coating, adhesive, sealing, filling, insulation, seismic, moisture and other applications.