

## Silicone Rubber

Form of Existence	Liquid Silicone Rubber	Solid Silicone Rubber
<b>Biocompatibility</b>	Superior Compatibility with Human Tissue and Body Fluids; Good food, water and medical contact	Some are FDA/Medical Grade, but not applied for human body
<b>Chemical Resistance</b>	Resists Water, Oxidation; Acids and Alkali	Resists Water and Oxidation
<b>Molding Method</b>	Injection Molding & Casting Molding	Compression Molding, Injection Molding, Transfer Molding & Extrusion Molding
<b>Cycle Life (molding time)</b>	20s-2 minutes	90s - a few minutes
<b>Degree of Accuracy</b>	Higher accuracy, Small Tolerance Range & Better Dimensional Stability	Dimension not as stable as LSR, but meet essential requirements
<b>Material Adoption</b>	No mold flash, saving material - an economical use	more mold flash - waste material to some degree
<b>Electrical Property</b>	Excellent insulating property; Flame retardant ( with fire retardant)	Insulated
<b>Transparency</b>	High levels of transparency; Easy to be mixed with pigmentation	Transparent; Can be mixed with toner
<b>Hardness</b>	5 to 80 Shore A	30 to 90 Shore A
<b>Temperature Resistance</b>	-20°C to 450°C	-40°C to 230°C
<b>Workshop</b>	Dust-free plant, clean room	Clean, no very strict requirement
<b>Vulcanizing Temperature</b>	Room Temperature	High Temperature