# Silicone Rubber

**Physical Properties:**

**Density:** Typically, around 1.1 to 1.3 g/cm$^3$.

**Hardness (Durometer):** Typically ranges from 40 to 70 Shore A.

**Tensile Strength:** Moderate to high.

**Elongation:** Typically, around 200% to 700%.

**Chemical Properties:**

**Resistant to:** Water, ozone, UV light.

**Not Recommended for:** Petroleum-based oils, fuels.

**Pressure Rating:**

**Low to Moderate Pressure:** Suitable for low to moderate-pressure applications.

**Temperature Range:**

**Operating Temperature:** Typically, between -60°C to 230°C (-76°F to 446°F).

**Short-Term Exposure:** Can handle higher temperatures for short durations.

**Applications:**

**Medical:** Seals for medical devices.

**Food and Beverage:** FDA-approved for food-grade applications.

**Electronics:** Insulators, gaskets for electronic components.

**Automotive:** Gaskets for engines, seals.

**Compatibility:**

**Compatible with:** Water, air, some chemicals.

**Not Compatible with:** Petroleum-based oils, fuels.

**Shelf Life and Storage:**

**Shelf Life:** Generally, 5 to 10 years.

**Storage Conditions:** Cool, dry place away from direct sunlight.

- It's important to note that specific formulations of silicone rubber can vary, and for critical applications, it's advisable to refer to the manufacturer's data sheets for precise information on a particular product.

BREINER INNOVATIVE
YOUR PARTS · OUR PASSION