

**Silicone Rubber Material Properties**

Physical Properties			
lb./cu in.	0.036	Specific Gravity	0.95
Durometer Range	25 – 80	Resilience	Poor to Excellent
Tensile Strength (psi)	600 – 1,500+	Elongation (% reinforced)	90 – 800
Drift, Room Temp	Fair to Excellent	Compression Set	Good to Excellent
Electrical Resistivity	Excellent	Impermeability, Gas	Fair

Mechanical Properties			
Impact Resistance	Poor to Fair	Abrasion Resistance	Poor to Good
Tear Resistance	Poor to Good	Cut Growth Resistance	Poor to Good
Tensile Strength (psi, 250°F)	850	Tensile Strength (psi, 400°F)	400
Elongation (% , 250° F)	350	Elongation (% , 400° F)	200

Temperature Properties			
Drift at 212° F	Excellent	Heat Aging at 212° F	Excellent
Flame Resistance	Fair to Good	Temperature, Max, (°F)	550
Low Temp, Stiffening (°F)	-60 to -160	Low Temp, Brittle Pt (°F)	-90 to -180

Environmental Properties			
Weather	Excellent	Oxidation	Excellent
Ozone	Excellent	Radiation	Fair to Excellent
Water	Good	Acid	Poor to Good
Alkali	Poor to Fair	Gasoline, Kerosene, etc.	Poor to Fair
Benzol, Toluol, etc.	Poor	Degreaser Solvents	Poor to Good
Alcohol	Good	Synthetic Lubricants (Diester)	Poor to Fair
Hydraulic Fluids, Silicates	Poor	Hydraulic Fluids, Phosphates	Good

Subjective Properties			
Taste	Good	Non-staining	Excellent
Odor	Good	Rigid Material Bonding	Fair to Excellent

Note: Property data shown are typical average values and will vary based on specific production lots and by size and product configuration. They should be used only as a guide to primary selection for the application of a given material and never for purchase specifications. All values shown are based on bone dry specimens.