

# Silicone Rubber

材质 Material	天然橡胶 (NR) Natural Rubber	丁苯橡胶 (SBR)	丁基橡胶 (IIR) Butyl	三元乙丙橡胶 (EPDM)	氯丁橡胶 (CR) Neoprene	丁腈橡胶 (NBR) Nitrile	聚氨酯 (PU) Urethane	硅(硅)胶 (SR) Silicone	聚乙炔 (CSM) Hypalon	
物性 Physical Properties	比重 Specific Gravity	硬度范围 Hardness Rang (Shore A°)	最大搞张强度 Tensile Strength Max (psi Rm. Temp)	最大延伸率 Elongation Max (% Rm. Temp)	回复力 Resilience	压缩变形 Compression Set	不透性 Permeability			
	0.93 1.45	0.94 1.20	0.92 1.10	0.86 1.30	1.10 1.35	1.00 1.20	1.02 1.25	1.08 1.15	1.12 1.35	
		30-100	35-100	30-90	30-90	35-95	30-100	55-100	20-90	40-90
		4000	3000	2500	3000	3000	3000	3000	1500	3000
		750	600	700	600	600	600	750	800	600
		E	G	P-F	G	G-E	F-G	F-E	F-G	F-G
		G	F	P-G	G	F-G	G	G-E	G-E	F-G
		F	F	E	F	F-G	G	P-F	P-F	G

	Impermeability to Gases									
	抗屈曲龟裂 Flex Cracking Resistance	F	G	G	G	G	F	G-E	F-E	G
	抗撕裂性 Tear Strength	E	F	G	F-G	F-G	F-G	E	P-F	F-G
	耐磨性 Abrasion Resistance	E	G-E	G	G-E	G-E	G-E	E	P-F	G-E
	抗冲击强度 Impact Strength	E	E	G	G	G-E	F-G	G-E	P-G	G
	抗割裂成长 Cut Growth Resistance	E	G	E	G	G	G	G-E	P-F	G
ENVIRONMENTAL RESISTANCE 耐环境物性	抗氧化 Oxidation Resistance	F-G	F-G	E	G-E	G-E	F-G	G-F	E	E
	抗臭氧 Ozone Resistance	P	P	G-E	E	G	P	E	E	E
	耐候 Weathering	F	F	E	E	G	F-G	G-E	E	G-E

	Resistance									
	抗日晒 Sunlight Resistance	P-F	F	E	E	G-E	P-F	G-E	E	E
	耐水性 Water Resistance	E	G-E	E	E	G	G-E	G	G	G
	耐燃性 Flame Resistance	P	P	P	P	G	P	P-G	F-G	G
	耐热性 Heat Resistance	F	F-G	G	G-E	F-G	G	F-G	E	G
	低温柔软性 Low Temperature Flexibility	G-E	G	F-G	G-E	F	F-G	G	E	F-G
CHEMICAL RESISTANCE 耐 化学品物性	耐油和 汽油 Oil and Gasoline	P	P	P	P	F-G	G-E	G-E	P-F	F-G
	耐动植物 油 Animal & Vegetable Oils	F	F	G-E	G	G	G-E	G	F-G	G
	耐醇类 Alcohols	G	G	G	F-G	G-E	F-G	F-G	G	G-E
	耐碱性 Alkalies	F	F	E	G-E	E	G-E	P	P	E

