

# 各種橡膠材質 物性 比較表

## Property Comparison of Rubber Material

特優	優	佳	差	劣
A+	A	B	C	D

名稱	丁睛膠 NBR	矽橡膠 SI	氟橡膠 FKM	乙丙膠 EPDM	丁苯膠 SBR	氯丁膠 CR	丙烯酸脂橡膠 ACM	天然橡膠 NR	氯磺化聚 乙烯膠 CSM	丁基橡膠 IIR	聚氨酯 橡膠 PU
拉力 Tensile Strength	A	D	A	C	A	A	D	A+	A	C	A+
伸長 Elongation	A	A+	D	A	A	A	D	A+	A	A	A+
彈性 Rebound Resistance	A	C	C	A	C	A+	C	A+	C	D	A+
撕斷力 Tear Resistance	A	D	C	C	C	A	D	A+	C	C	A+
耐磨 Abrasion Resistance	A+	D	C	A	A+	A	C	A+	A	A+	A+
撞擊力 Impact Strength Resistance	A	D	C	A	A+	A+	D	A+	A	A	A+
氣密性 Gas Impermeability Resistance	A	D	A	C	C	A+	C	C	A	A+	A
耐氧化 Oxygen Resistance	C	A+	A+	A	C	A	A	C	A+	A+	A
耐臭氧 Ozone Resistance	D	A+	A+	A+	D	A	A	D	A+	A	A
耐候 Weathering Resistance	C	A+	A+	A+	C	A	A	C	A	A+	A
耐日光 Flame Resistance	D	A+	A+	A+	C	A	A	D	A+	A+	A
耐熱 Heat Resistance	C	A+	A+	A+	C	A	A	D	A	A	C
低溫性 Low Temperature Resistance	C	A+	A	A	C	C	D	A	C	C	A
油與汽油 Oil and Fuel Resistance	A	C	A+	D	D	B	A	D	B	D	A
動植物油 Animal and Vegetable Oil Resistance	A+	B	A+	A	C	A	A+	C	A	A	A
酒精 Alcohol Resistance	A	A	A	B	A	A+	A	A	A+	A	B
鹼液 Alkaline Resistance	A	D	B	A	C	A+	D	C	A+	A+	D
酸液 Acid Resistance	A	C	A	A	B	A	C	B	A	A	D
溶劑油 Aliphatic-solvent Resistance : Aliphatic	A+	D	A+	D	D	A	A+	D	A	D	A
溶劑油 Aliphatic-solvent Resistance : Aromatic	B	D	A+	D	D	C	C	D	C	D	D
氧化溶劑 Oxygen Ated-solvent Resistance.	D	C	D	A+	A	D	D	A	C	A+	D
耐水性 Water Resistance	A	A	A	A+	A	A	D	A+	A	A+	C

簡介

# 橡膠材質 耐溫 比較表

## Rubber Material Temperature Character Comparison

材質	一般材質溫度範圍 (°C)	特殊配方可達到之溫度範圍 (°C)
丁睛膠(NBR)	-30~100	-50~120
矽橡膠( SI )	-40~200	-70~300
氟橡膠(FKM )	-20~200	-30~275
乙丙膠(EPDM )	-40~130	-50~150
丁苯膠( SBR )	-30~80	-40~100
氯丁膠( CR )	-30~90	-40~100
丙烯酸脂橡膠( ACM )	-20~130	-35~150
天然橡膠( NR )	-40~60	-40~100
氯磺化聚乙 烯膠( CSM )	-20~100	-25~120
丁基橡膠( IIR )	-40~100	-50~120
聚氨酯橡膠( PU )	-35~80	-50~100
氫化丁睛膠( HNBR )	-25~120	-40 ~140

- A+ Excellent
- A Good to Excellent
- B Good
- C Fair, can be used if no other materials available
- D Not recommended