

## 油封 / Oil Seal

|                                                                                    |
|------------------------------------------------------------------------------------|
|  |
| <b>產品名稱：</b> 油封                                                                    |
| <b>規格：</b> 規格品及客製化尺寸（依客戶尺寸開模製作）                                                    |
| <b>顏色：</b> 黑色、咖啡色                                                                  |
| <b>適用範圍：</b> 航太、汽機車、船舶五金零配件、運動器材、電子機械等用途廣泛                                         |
| <b>產品材質規範：</b> 可符合 RoHs、Reach、PAHs、UL 防火級、FDA 等依客戶需求開發                             |
| <b>產品硬度：</b> 60~70 度                                                               |
| <b>材質：</b> NBR、ACM、FPM、MVQ                                                         |
| <b>交貨日期：</b> 規格品 20 ~ 60 天（有庫存可優先出貨）                                               |

|                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name:</b> Oil seal                                                                                                                      |
| <b>Specifications:</b> Specifications and customized sizes (Made according to customer's size and mold)                                            |
| <b>Color:</b> Black、Brown                                                                                                                          |
| <b>Scope of Application:</b> Aerospace, automobiles, ships, metal parts, sports equipment, electronics, machinery and many other uses              |
| <b>Product Material Specifications:</b> Meets RoHs、Reach、PAHs、UL fire-resistance rating、FDA ...etc. Processed according to customer's requirements |
| <b>Hardness:</b> 60~70°C                                                                                                                           |
| <b>Material:</b> NBR、ACM、FPM、MVQ                                                                                                                   |
| <b>Delivery Date:</b> Specification product 20~60 days (Products in stock can be shipped first)                                                    |

# 橡膠材質比較表

## RUBBER MATERIALS PROPERTIES

◎ 超 Excellent      ● 優 Good      ■ 中 Suitable      △ 差 Limited      ▼ 劣 Poor

|                                   | NR | IR | SBR | BR | IIR | EPDM | CR | NBR | PU | CSM | ACM | ECO | VAE | SI | FPM |
|-----------------------------------|----|----|-----|----|-----|------|----|-----|----|-----|-----|-----|-----|----|-----|
| 拉力/Tensile Strength               | ◎  | ●  | ●   | △  | △   | △    | ●  | ●   | ◎  | ●   | ▼   | △   | ●   | ▼  | ●   |
| 伸長/Elongation                     | ◎  | ◎  | ●   | △  | ●   | ●    | ●  | ●   | ◎  | ●   | ▼   | ▼   | ▼   | ◎  | ▼   |
| 彈性/Rebound Resistance             | ◎  | ◎  | △   | ◎  | ▼   | ●    | ◎  | ●   | ◎  | △   | △   | △   | △   | △  | △   |
| 撕斷力/Tear Resistance               | ◎  | ●  | △   | △  | △   | △    | ●  | ●   | ◎  | △   | ▼   | △   | △   | ▼  | △   |
| 耐磨/Abrasion-Resistance            | ◎  | ◎  | ◎   | ◎  | ◎   | ●    | ●  | ◎   | ◎  | ●   | △   | △   | ●   | ▼  | △   |
| 撞擊力/Impact Strength Resistance    | ◎  | ◎  | ◎   | ●  | ●   | ●    | ◎  | ●   | ◎  | ●   | ▼   | ●   | △   | ▼  | △   |
| 氣密性/Gas Impermeability Resistance | △  | △  | △   | △  | ◎   | △    | ●  | ●   | ●  | ●   | △   | ◎   | ●   | ▼  | ●   |

|                                | NR | IR | SBR | BR | IIR | EPDM | CR | NBR | PU | CSM | ACM | ECO | VAE | SI | FPM |
|--------------------------------|----|----|-----|----|-----|------|----|-----|----|-----|-----|-----|-----|----|-----|
| 耐臭氧/Ozone Resistance           | ▼  | ▼  | ▼   | ▼  | ●   | ◎    | ●  | ▼   | ●  | ◎   | ●   | ◎   | ◎   | ◎  | ◎   |
| 耐候/Weathering Resistance       | △  | △  | △   | △  | ◎   | ◎    | ●  | △   | ●  | ●   | ●   | ●   | ◎   | ◎  | ◎   |
| 耐日光/Flame Resistance           | ▼  | ▼  | △   | △  | ◎   | ◎    | ●  | ▼   | ●  | ◎   | ●   | ●   | ◎   | ◎  | ◎   |
| 耐熱/Heat Resistance             | ▼  | ▼  | △   | △  | ●   | ◎    | ●  | △   | △  | ●   | ●   | ●   | ●   | ◎  | ◎   |
| 低溫性/Low Temperature Resistance | ●  | ●  | △   | ●  | △   | ●    | △  | △   | ●  | △   | ▼   | ●   | ●   | ◎  | ●   |

|                                              | NR | IR | SBR | BR | IIR | EPDM | CR | NBR | PU | CSM | ACM | ECO | VAE | SI | FPM |
|----------------------------------------------|----|----|-----|----|-----|------|----|-----|----|-----|-----|-----|-----|----|-----|
| 油與汽油/Oil and Fuel Resistance                 | ▼  | ▼  | ▼   | ▼  | ▼   | ▼    | ■  | ●   | ●  | ■   | ●   | ●   | △   | △  | ◎   |
| 動植物油/<br>Animal and Vegetable Oil Resistance | △  | △  | △   | △  | ●   | ●    | ●  | ◎   | ●  | ●   | ◎   | ◎   | △   | ■  | ◎   |
| 酒精/Alcohol Resistance                        | ●  | ●  | ●   | ●  | ●   | ■    | ◎  | ●   | ■  | ◎   | ●   | ●   | ●   | ●  | ●   |
| 鹼液/Alkaline Resistance                       | △  | △  | △   | △  | ◎   | ●    | ◎  | ●   | ▼  | ◎   | ▼   | ■   | ●   | ▼  | ■   |
| 酸液/Acid Resistance                           | ■  | ■  | ■   | ■  | ●   | ●    | ●  | ●   | ▼  | ●   | △   | △   | △   | △  | ●   |
| 溶劑油/Aliphatic-solvent Resistance             |    |    |     |    |     |      |    |     |    |     |     |     |     |    |     |
| - Aliphatic                                  | ▼  | ▼  | ▼   | ▼  | ▼   | ▼    | ●  | ◎   | ●  | ●   | ◎   | ●   | △   | ▼  | ◎   |
| - Aromatic                                   | ▼  | ▼  | ▼   | ▼  | ▼   | ▼    | △  | ■   | ▼  | △   | △   | ●   | ▼   | ▼  | ◎   |
| 氧化溶劑/<br>Oxygenated-Solvent Resistance       | ●  | ●  | ●   | ●  | ◎   | ◎    | ▼  | ▼   | ▼  | △   | ▼   | ▼   | △   | △  | ▼   |
| 耐水性/Water Resistance                         | ◎  | ◎  | ●   | ◎  | ◎   | ◎    | ●  | ●   | △  | ●   | ▼   | ●   | ●   | ●  | ●   |

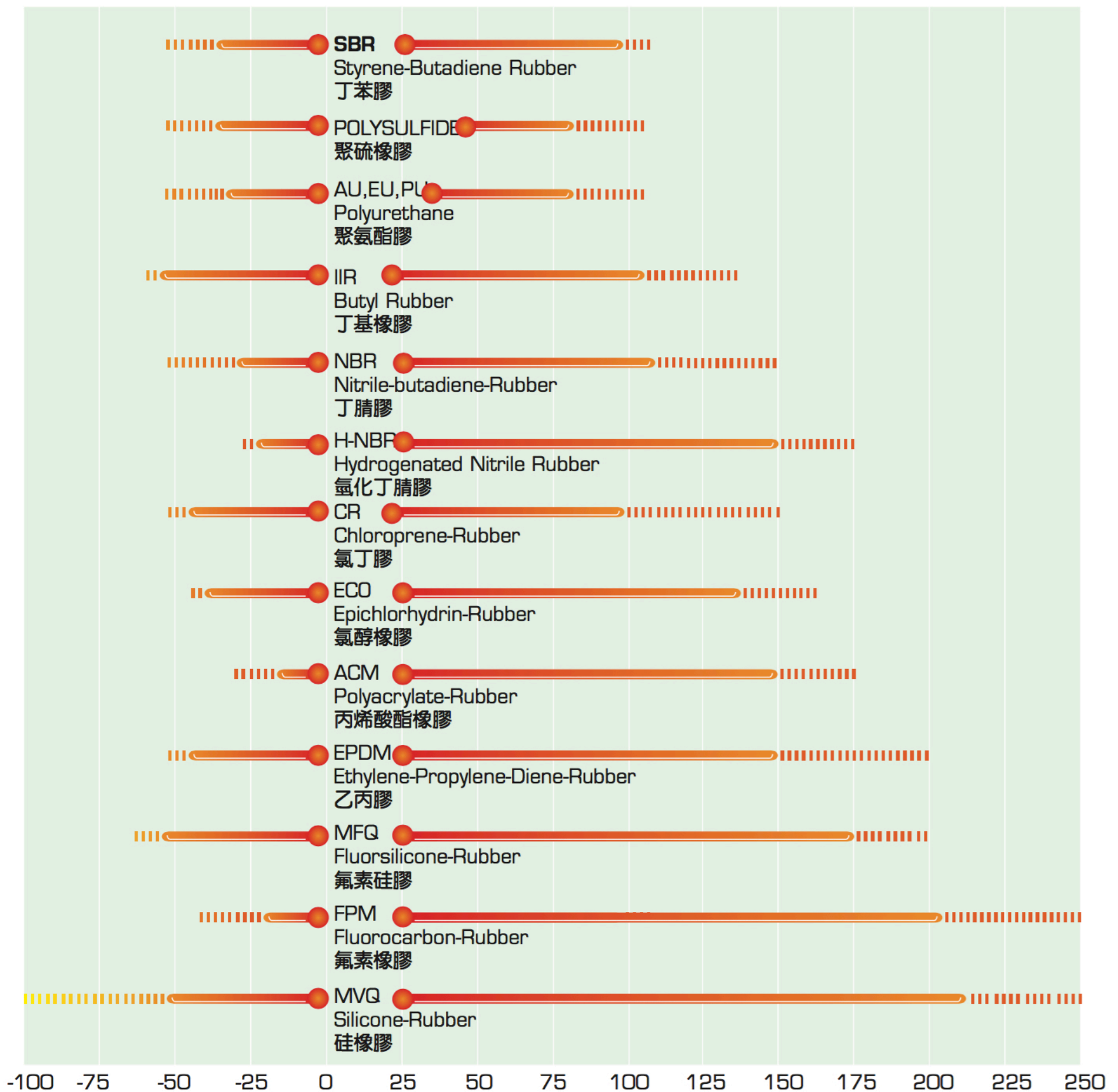
# 橡膠材質耐溫表

## TEMPERATURE RESISTANCE

## OF RUBBER MATERIALS

■ 適用溫度 Working Temperature period.

||||| 特殊配方可達到之溫度區間  
Only to be achieved under particular conditions with special compounds.



Temperature -°C

Centigrade=  $\frac{5}{9}(F-32)$  • Fahrenheit=  $\frac{9}{5}C+32$