

# 醫療、食品衛生級製品用塑膠粒

PVC Compound for medical, food grade products

| 分類 Item<br>測試項目 Test                                          | 射出食品衛生級膠粒 Injection food grade PVC compound                                   |                   |                                                                                                                                                                                                                                                                                                        |                   |                   |                   | 測試規範<br>Test method |
|---------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|---------------------|
|                                                               | 3MTA...GXX                                                                    |                   | 3MTA、3MTB、3MTC、3MTD...GXX<br>3MTB、3MTJ、3MTD、3MTK...-3XX<br>3MTG、3MTJ、3MTK、3MTM...XXX                                                                                                                                                                                                                   |                   |                   |                   |                     |
|                                                               |                                                                               |                   | 30~45 PHR                                                                                                                                                                                                                                                                                              | 50~65 PHR         | 70~90 PHR         | 95~115 PHR        |                     |
| 比重<br>Specific gravity                                        | 1.365~1.385                                                                   | 1.290~1.310       | 1.240~1.280                                                                                                                                                                                                                                                                                            | 1.195~1.245       | 1.140~1.205       | 1.135~1.165       | ASTM D-792          |
| 拉力強度(Kg/cm²)<br>Tensile strength (Kg/cm²)                     | 500 ↑                                                                         | 200 ↑             | 180 ↑                                                                                                                                                                                                                                                                                                  | 110 ↑             | 90 ↑              | 75 ↑              | ASTM D-638          |
| 伸長率(%)<br>Elongation(%)                                       | 20 ↑                                                                          | 220 ↑             | 250 ↑                                                                                                                                                                                                                                                                                                  | 280 ↑             | 330 ↑             | 365 ↑             | ASTM D-638          |
| 硬度(shore A 3")<br>Hardness (shore A3")                        | --                                                                            | --                | 84~96                                                                                                                                                                                                                                                                                                  | 67~85             | 50~73             | 42~57             | ASTM D-2240         |
| 硬度(shore D 15")<br>Hardness (shore D15")                      | 73~83                                                                         | 53~63             | --                                                                                                                                                                                                                                                                                                     | --                | --                | --                | ASTM D-1004         |
| 撕裂強度(Kg/cm)<br>Test strength (kg/cm)                          | --                                                                            | 120 ↑             | --                                                                                                                                                                                                                                                                                                     | --                | --                | --                | CNS-12221           |
| 耐唾液、汗液試驗<br>Saliva, sweat test                                | --                                                                            | 無粘附顏色<br>No color | 無粘附顏色<br>No color                                                                                                                                                                                                                                                                                      | 無粘附顏色<br>No color | 無粘附顏色<br>No color | 無粘附顏色<br>No color | CNS 4798-6          |
| 針入度(°C)<br>Vicat softening point (°C)                         | 75 ↑                                                                          | --                | --                                                                                                                                                                                                                                                                                                     | --                | --                | --                | ASTM D-1525         |
| 熱變形溫度 264psi(°C)<br>Heating deflection temperature 264psi(°C) | 58 ↑                                                                          | --                | --                                                                                                                                                                                                                                                                                                     | --                | --                | --                | ASTM D-648          |
| 化性分析 (重金屬檢測)<br>Chemical property analysis (heavy metal)      | PASS                                                                          | PASS              | PASS                                                                                                                                                                                                                                                                                                   | PASS              | PASS              | PASS              | ASTM F963           |
| 用途<br>Application                                             | · GXX 食品衛生<br>硬質、半硬質滴筒<br><br>· Food grade Rigid,<br>semi-rigid drip cylinder |                   | · GXX 食品衛生    · 3XX(Ca/Zn 系)    · XXX 一般<br>3MTA 滴筒    3MTB 氧氣罩    3MTC 風阻    3MTD 玩具<br>3MTK 耳塞    3MTJ 潛水鏡    3MTM 鉛扣<br><br>· GXX food grade    · 3XX (Ca/Zn)    · XXX general<br>3MTA drip cylinders 3MTB oxygen masks 3MTC nozzle<br>3MTD toys 3MTK earplugs 3MTD snorkels 3MTM<br>boat retainers |                   |                   |                   |                     |



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| 分類 Item<br>測試項目 Test                                                | 押出食品衛生級膠粒 Extruded food grade PVC compound                                                                                                                                   |                   |             | 測試規範<br>Test method                                                                                                                                                                                         |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | 3MSA...XXX<br>PXX<br>GXX                                                                                                                                                     |                   | 3MWN...P3X  |                                                                                                                                                                                                             |
|                                                                     | 35~60 PHR                                                                                                                                                                    | 65~85 PHR         | 60~70 PHR   |                                                                                                                                                                                                             |
| 比重<br>Specific gravity                                              | 1.200~1.275                                                                                                                                                                  | 1.165~1.210       | 1.200~1.230 | ASTM D-792                                                                                                                                                                                                  |
| 拉力強度(Kg/cm <sup>2</sup> )<br>Tensile strength (Kg/cm <sup>2</sup> ) | 90 ↑                                                                                                                                                                         | 100 ↑             | 150 ↑       | STM D-638                                                                                                                                                                                                   |
| 伸長率(%)<br>Elongation(%)                                             | 260 ↑                                                                                                                                                                        | 330 ↑             | 280 ↑       | ASTM D-638                                                                                                                                                                                                  |
| 硬度(shore A 3")<br>Hardness (shore A3")                              | 67~95                                                                                                                                                                        | 62~75             | 72~80       | ASTM D-2240                                                                                                                                                                                                 |
| KMnO <sub>4</sub> 溶出性試驗<br>KMnO <sub>4</sub> consumption            | --                                                                                                                                                                           | --                | 1ml ↓       | CNS-12221                                                                                                                                                                                                   |
| 耐唾液、汗液試驗<br>Saliva, sweat test                                      | 無粘附顏色<br>No color                                                                                                                                                            | 無粘附顏色<br>No color | --          | CNS 4798-6                                                                                                                                                                                                  |
| 化性分析 (重金屬檢測)<br>Chemical property analysis (heavy metal)            | PASS                                                                                                                                                                         | PASS              | PASS        | ASTM F963                                                                                                                                                                                                   |
| 用途<br>Application                                                   | <ul style="list-style-type: none"> <li>XXX 一般</li> <li>PXX 高彈性</li> <li>GXX 食品衛生 醫療用滴管、導尿管</li> <li>XXX general</li> <li>PXX high elastic</li> <li>GXX food grade</li> </ul> |                   |             | <ul style="list-style-type: none"> <li>P3X 高彈性、Ca/Zn 系 血液透析導管醫療用滴管、輸血袋</li> <li>P3X high elastic</li> <li>Ca/Zn contain Blood dialysis tube, medical drip, blood bags Medical drip tube, urinary</li> </ul> |

