

# CHANG CHUN CHEMICAL(ZHANGZHOU) CO., LTD.

Baosheng Rd, Longchi Industry Park, Taiwanese Investment Zone, Zhangzhou, Fujian, China  
TEL : 86-596-6269085 FAX : 86-596- 26269688

## Engineering Plastics

### Nylon-66

## PA 21G5104

### Technical Data

CCP PA 21G5104

PA 21G5104 is a flame retarded injection moulding grade.

PA 21G5104 阻燃強化聚酰胺 66 複合材料

Characteristics 品質特性

1)excellent mechanic and compressive strength 優越的機械與抗壓強度

2)excellent heat-resistant 優越的耐熱性

3)excellent wear property 優越的耐磨耗性

4)excellent fatigue durability 優越的耐疲勞性

5)excellent moldability 優越的成型性

6)High resistance to fuels, oil, fats and many solvents 高抗燃料、油料、溶劑特性

#### Injection Moulding Condition

Cylinder temperatures : 265-295°C

料管溫度

Nozzle temperature : 285-295°C

射嘴溫度

Mould temperature : 40-120°C, suitable temperature 60-80°C

模溫

Injection rate : middle – fast

射速

Screw speed : 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.

螺桿轉速

Pressure Injection pressure : 500-1200kg/cm<sup>2</sup>

壓力

射壓

Holding pressure : 300-800kg/cm<sup>2</sup>

保壓

Back pressure : 0-3kg/cm<sup>2</sup>

背壓

#### Packaging 包裝

25kg/ paper bag 紙袋包裝 25kg

#### Material handing

Moisture pick-up from ambient air should be avoided. Keep hopper properly closed.

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#### CCP PA-21G5104

| Property<br>品質特性   | Value<br>測試值 | Unit<br>單位         | Test method<br>ISO |
|--|--------------|--------------------|--------------------|
| Density密度  | 1.55         | -                  | 1183               |
| Melting point熔點  | 265          | °C                 | DSC                |
| Molding shrinkage成型收縮率                                     | 0.4-0.8      | %                  | 294                |
| Heat deflection temperature under load<br>熱變形溫度 --- 1.8MPa | 248          | °C                 | 75                 |
| --- 0.45MPa  | 259          | °C                 | 75                 |
| Tensile strength拉伸強度                                       | 100          | kg/cm <sup>2</sup> | 527                |
| Tensile Elongation拉伸伸長率                                    | 2.5          | %                  | 527                |
| Flexural strength撓曲強度                                      | 150          | kg/cm <sup>2</sup> | 178                |
| Flexural modulus撓曲彈性率                                      | 5500         | kg/cm <sup>2</sup> | 178                |
| Izod impact strength衝擊強度                                   | 10.0         | kg.cm/cm180        |                    |
| Dielectric strength, 2mm絕緣破壞強度                             | 25           | kV/mm              | IEC 60243-1        |
| Comparative Tracking Index漏電起痕指數                           | 250          | V                  | IEC 60112          |
| 耐燃性 (0.8mm)  | V-0          | /                  | UL94               |

(1) For reference only

(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.

※以上数据仅为典型值，而非规格值。