

技術資料表  
Technical Data Sheet

**ABTTYPE**

抗菌防霉，高剛性、高耐熱級

Antibacterial and anti-mildew, high rigidity and high heat resistance level

樹脂 Resin PP Polypropylene Homopolymer  
規格 Grade ABT5A-G4  
來源 source 上禾伸企業

**描述 Description**

■ 抗菌效果檢測可以通過 ISO 22196 規範測試。無銀、汞、鉛、鎘等重金屬的抗微生物添加劑，良好的耐熱性穩定性，與良好和長期的抗菌防霉的特性，也賦予產品除臭性。大腸桿菌與黃金葡萄球菌、其他有害病菌、黴菌，有抑制生長與繁殖效果，尤其在高潮濕的環境，有更明顯抗菌防霉的效果。

Antibacterial effect testing can pass the ISO 22196 specification test. Antimicrobial additives without heavy metals such as silver, mercury, lead, and cadmium, good heat resistance and stability, and good and long-term antibacterial and antifungal properties, which also give the product deodorizing properties. Escherichia coli, Staphylococcus aureus, and other harmful bacteria and molds can inhibit the growth and reproduction. Especially in high-humidity environments, it has a more obvious antibacterial and anti-mold effect.

■ 高剛性、高耐熱，熱變型 HDT 達 135°C。

High rigidity and high heat resistance, HDT reaches 135°C.

成型模式 射出成型  
Forming mode Injection Molding

**特性 Properties**

| 項目<br>Project               | 測試標準<br>Testing standards | 單位<br>Unit        | 標準數值<br>Typical Value |
|-----------------------------|---------------------------|-------------------|-----------------------|
| 填充劑含量 Filler Content        |                           | %                 | **                    |
| 比重 Specific Gravity         | ASTM D792                 | g/cm <sup>3</sup> | 0.9                   |
| 流動指數 MFR, (MI) 230×2.16KG   | ASTM D1238                | g/10min           | 15                    |
| 收縮率-平行    Mold Shrinkage MD | 3 mm t                    | %                 | 1.8                   |
| 收縮率-垂直 ⊥ Mold Shrinkage TD  |                           |                   | 2.2                   |
| 耐燃性 Flammability            | UL-94                     |                   | HB                    |
| 顏色 Color                    |                           |                   | natural color         |

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### 機械特性 Mechanical properties

|                                   |                 |                     |       |
|-----------------------------------|-----------------|---------------------|-------|
| 伸張降伏強度 Tensile Strength at Yield  |                 |                     | 450   |
| 伸張斷裂強度 Tensile Strength at Break  |                 | kg/ cm <sup>2</sup> | 280   |
| 拉伸模數 Tensile Modulus              | ASTM D638       |                     | 17800 |
| 斷裂伸張率 Tensile Elongation at Break |                 | %                   | 12    |
| 彎曲強度 Flexural Strength            |                 |                     | 650   |
| 彎曲模數 Flexural Modulus             | ASTM D790       | kg/ cm <sup>2</sup> | 18000 |
| 衝擊強度(缺口式)IZOD Impact (notched)    | ASTM D256       | 23°C kg-cm/cm       | 4.2   |
| 硬度 Rockwell/Shore Hardness        | ASTM D785/D2240 | D                   | 69    |

### 熱力特性 Heat properties

|                                   |           |    |     |
|-----------------------------------|-----------|----|-----|
| 熱變形溫度 18.54kg/ cm <sup>2</sup>    |           |    |     |
| Heat distortion temperature H D T | ASTM D648 | °C | 135 |
| 熔融溫度 Melting temperature          | DSC       |    | 165 |

### 成型條件 Molding conditions

|                              |         |   |         |
|------------------------------|---------|---|---------|
| 烘乾溫度 Drying temp. °C         | 80      | 烘乾時間 Drying time H                          | 1-2     |
| 進料區溫度 Feed zone temp. °C     | 195~225 | 壓縮區溫度 Compression zone temp. °C             | 195~225 |
| 計量區溫度 Metering zone temp. °C | 195~230 | 噴嘴溫度 Nozzle temp. °C                        | 195~235 |
| 模具溫度 Mold temp. °C           | 50      | 射出壓力 Injection pressure Kg/ cm <sup>2</sup> | 120~200 |

\*雖然上述信息是出於善意並被認為是準確的，但我們不保證依賴此類信息取得令人滿意的結果，並且不承擔因使用此類信息而引起的任何損失或損害的全部責任。\*以上數值係僅供選擇用途品級之參考。

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