



技術資料表 Technical Data Sheet

D1H TYPE

PA6/AS 合金，高光澤度，低吸濕、尺寸低收縮，高黑度

PA6/AS alloy, high gloss, low moisture absorption, low size shrinkage, high blackness

樹脂 Resin PA6 Polyamide6

規格 Grade D1H78-E41 BK

來源 source 上禾伸企業

描述 Description

- 高光澤度，反光亮度高。
High gloss, high reflective brightness.
- 降低 PA6 吸濕率，低蠕變性，尺寸收縮率小。
Reduces PA6 moisture absorption, low creep property, and small dimensional shrinkage.
- 抗拉伸模數、彎曲模數提升，提高產品的挺性與反撥彈性。
The tensile modulus and flexural modulus are increased to improve the stiffness and kickback elasticity of the product.
- 提高 PA6 的染色穩定性。
Improve the dyeing stability of PA6.

成型模式 射出成型
Forming mode Injection Molding

特性 Properties

| 項目 Project | 單位 Unit | 測試標準 Testing standards | 標準數值 Typical Value |
|-----------------------------|-------------------|---------------------------|-----------------------|
| 填充劑含量 Filler Content | % | | ** |
| 比重 Specific Gravity | g/cm ³ | ASTM D792 | 1.12 |
| 流動指數 MFR,(MI) 235×2.16KG | g/10min | ASTM D1238 | 16.8 |
| 收縮率-平行 Mold Shrinkage MD | % | 3 mm t | 0.9 |
| 收縮率-垂直 ⊥ Mold Shrinkage TD | | | 1.4 |
| 耐燃性 Flammability | | UL-94 | HB |
| 顏色 Color | | | natural color |



機械特性 Mechanical properties

| | | | |
|-----------------------------------|---------------------|-----------------|-------|
| 伸張降伏強度 Tensile Strength at Yield | | | 750 |
| 伸張斷裂強度 Tensile Strength at Break | kg/ cm ² | ASTM D638 | 650 |
| 拉伸模數 Tensile Modulus | | | 26500 |
| 斷裂伸張率 Tensile Elongation at Break | % | | 17 |
| 彎曲強度 Flexural Strength | kg/ cm ² | ASTM D790 | 1050 |
| 彎曲模數 Flexural Modulus | | | 28000 |
| 衝擊強度(缺口式)IZOD Impact (notched) | 23°C kg-cm/cm | ASTM D256 | 7.5 |
| 硬度 Rockwell/Shore Hardness | D | ASTM D785/D2240 | 75 |

熱力特性 Heat properties

| | | | |
|--------------------------------------|----|-----------|-----|
| 熱變型溫度 18.54kg/ cm ² H D T | | ASTM D648 | 74 |
| 熱變型溫度 4.6kg/ cm ² H DT | °C | | 155 |
| 熔融溫度 Melting temperature | | DSC | ** |

電氣特性 Electrical properties

| | | | |
|----------------------------------|------|-----------|------------------|
| 體積固有阻抗 Volume inherent impedance | Ω·cm | ASTM D257 | 10 ¹⁴ |
| 表面阻抗 Surface resistivity | Ω | | 10 ¹⁴ |
| 塑料狀態 plastic state | | | 乾燥 dry |

成型條件 Molding conditions

| | | | |
|------------------------------|---------|---|---------|
| 烘乾溫度 Drying temp. °C | 80 | 烘乾時間 Drying time H | 4 |
| 進料區溫度 Feed zone temp. °C | 220~235 | 壓縮區溫度 Compression zone temp. °C | 220~235 |
| 計量區溫度 Metering zone temp. °C | 225~245 | 噴嘴溫度 Nozzle temp. °C | 225~250 |
| 模具溫度 Mold temp. °C | 60~80 | 射出壓力 Injection pressure Kg/ cm ² | 300~400 |

*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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