



# 國亨化學股份有限公司

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國亨 HIPS 樹脂產品性能一覽表

產品資訊

## Typical Properties of GPPC'S HIPS Resins

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| 性質<br>Properties |   | 試驗方法<br>ASTM<br>Methods | 測試條件<br>Conditions                                  | 單位<br>Units                | 耐衝擊級<br>High Impact  |
|------------------|---|-------------------------|---|----------------------------|----------------------|
|                  |   |                         |   |                            | 高衝擊<br>射出用<br>PS-333 |
| 機械性能             | 衝擊強度<br>Izod Impact<br>Strength (Notched)               | D-256                   | 1/4"  | Kgf-cm/cm<br>ft.-lbs/in.   | 9.5<br>1.8           |
|                  |   | D-256                   | 1/8"  | Kgf-cm/cm<br>ft.-lbs/in.   | 10.5<br>2.0          |
|                  | 抗張強度<br>Tensile Strength                                | D-638                   | 50mm/min.<br>1/8"thickness                          | Kgf/cm <sup>2</sup><br>MPa | 300<br>30.0          |
|                  | 抗折強度<br>Flexural Strength                               | D-790                   | 15mm/min.<br>1/8"x1"x4"                             | Kgf/cm <sup>2</sup><br>MPa | 480<br>47.2          |
|                  | 抗折模數<br>Flexural Modulus                                | D-790                   | 15mm/min.<br>1/8"x1"x4"                             | Kgf/cm <sup>2</sup><br>MPa | 22300<br>2200        |
| 熱性能              | 熱變形溫度<br>Heat Deflection<br>Temperature<br>(Unannealed) | D-648                   | 18.6kg/cm <sup>2</sup><br>(264 PSI)<br>1/2"x1/2"x5" | °C<br>°F                   | 82<br>180            |
|                  | 融流指數<br>Melting Flow Rate                               | D-1238                  | 200°C/5 kg<br>230°C/3.8 kg                          | g/10min.                   | 5.0<br>12.5          |
| 物理性能             | 洛氏硬度<br>Rockwell Hardness                               | D-785                   | L-scale   | ---                        | 62                   |
|                  | 比重<br>Specific Gravity                                  | D-792                   | 23°C<br>(73°F)                                      | ---                        | 1.05                 |
| 耐燃性              | UL 燃燒等級<br>UL Flame Class Rating<br>(File No. E115332)  | UL-94                   |   | 1/8"<br>Thickness          | HB                   |
|                  |   |                         |   | 1/16"<br>Thickness         | HB                   |

|      |                                 |         |
|------|---------------------------------|---------|
| 成型條件 | 乾燥溫度 Drying Temperature (°C)    | 80—90   |
|      | 成型溫度 Injection Temperature (°C) | 160—240 |
|      | 模具溫度 Mould Temperature (°C)     | 35—65   |

※上表所列數據資料僅供參考用。

These property values under specific test conditions as defined in the table above are for reference only.