

## High Heat ABS POLYLAC® Characteristics PA-777D

| 特性<br>PROPERTIES                      | 測試方法<br>ASTM<br>TEST METHOD | 測試條件<br>TEST CONDITION | 單位<br>UNIT                         | 耐熱級 HIGH HEAT |
|---------------------------------------|-----------------------------|------------------------|------------------------------------|---------------|
|                                       |                             |                        |                                    | PA-777D       |
| 熔融指數<br>Melt Flow Index               | D1238                       | 200 °C, 5 Kg           | g/10 min                           | -             |
|                                       |                             | 220 °C, 10 Kg          |                                    | 5.5           |
| 比重<br>Mass Density                    | D792                        | 23 °C                  | -                                  | 1.06          |
| 硬度<br>Hardness                        | D785                        | -                      | R Scale                            | 115           |
| 拉伸強度 (屈服)<br>Tensile Strength (Yield) | D638                        | 6 mm/min               | Kg/cm <sup>2</sup>                 | 450           |
|                                       |                             |                        | lb/in <sup>2</sup>                 | 6380          |
| 延伸率<br>Tensile Elongation             | D638                        | 6 mm/min               | %                                  | 15            |
| 彎曲強度<br>Flexural Strength             | D790                        | 2.8 mm/min             | Kg/cm <sup>2</sup>                 | 680           |
|                                       |                             |                        | lb/in <sup>2</sup>                 | 9650          |
| 彎曲彈性模數<br>Flexural Modulus            | D790                        | 2.8 mm/min             | 10 <sup>4</sup> Kg/cm <sup>2</sup> | 2.3           |
|                                       |                             |                        | 10 <sup>5</sup> lb/in <sup>2</sup> | 3.2           |
| IZOD 衝擊強度<br>Izod Impact Strength     | D256 (Notched)              | 6.4 mm, 23°C           | Kg-cm/cm                           | 14            |
|                                       |                             |                        | ft-lb/in                           | 2.6           |
|                                       |                             | 3.2 mm, 23°C           | Kg-cm/cm                           | 17            |
|                                       |                             |                        | ft-lb/in                           | 3.2           |
| 維氏軟化溫度<br>Vicat Softening Temp.       | D1525                       | 1 Kg, 50 °C/hr         | °C                                 | 125           |
|                                       |                             |                        | °F                                 | 257           |
| 熱變形溫度<br>Heat Distortion Temp.        | D648                        | 1.8 MPa Annealed       | °C                                 | 115           |
|                                       |                             |                        | °F                                 | 239           |
|                                       |                             | 1.8 MPa Unannealed     | °C                                 | 105           |
|                                       |                             |                        | °F                                 | 221           |
| UL 燃燒等級<br>UL Flammability            | UL 94                       | -                      | -                                  | 1.5 mm HB     |

