

## General PMMA ACRYREX® Characteristics CM-211

| 特性<br>PROPERTIES                         | 測試方法<br>ASTM<br>TEST METHOD | 測試條件<br>TEST<br>CONDITION | 單位<br>UNIT         | 一般級 GENERAL |
|------------------------------------------|-----------------------------|---------------------------|--------------------|-------------|
|                                          |                             |                           |                    | CM-211      |
| 熔融指數<br>Melt Flow Index                  | D1238                       | 230 °C, 3.8 Kg            | g/10 min           | 16.0        |
| 比重<br>Mass Density                       | D792                        | 23 °C                     | -                  | 1.19        |
| 假比重<br>Bulk Density                      | D1182                       |                           | g/cm <sup>3</sup>  | 0.7         |
| 吸水率<br>Water Absortion                   | D570                        |                           | %                  | 0.3         |
| 成型收縮率<br>Mould Shrinkage                 | D955                        |                           | %                  | 0.2~0.6     |
| 硬度<br>Hardness                           | D785                        | -                         | M Scale            | 84          |
| 折射率<br>Refractive Index                  | D542                        |                           |                    | 1.491       |
| 全光透過率<br>Light Transmission              | D1003                       |                           | %                  | 92          |
| 拉伸強度 (斷裂)<br>Tensile Strength<br>(Break) | D638                        | 6 mm/min                  | Kg/cm <sup>2</sup> | 680         |
|                                          |                             |                           | lb/in <sup>2</sup> | 9700        |
| 延伸率<br>Tensile Elongation                | D638                        | 6 mm/min                  | %                  | 7           |
| 彎曲強度<br>Flexural Strength                | D790                        | 2.8 mm/min                | Kg/cm <sup>2</sup> | 1000        |
|                                          |                             |                           | lb/in <sup>2</sup> | 14200       |
| IZOD 衝擊強度<br>Izod Impact Strength        | D256<br>(Notched)           | 6.4 mm, 23°C              | Kg-cm/cm           | 2.0         |
|                                          |                             |                           | ft-lb/in           | 0.37        |
| 維氏軟化溫度<br>Vicat Softening Temp.          | D1525                       | 1 Kg, 50 °C/hr            | °C                 | 103         |
|                                          |                             |                           | °F                 | 217         |
| 熱變形溫度<br>Heat Distortion Temp.           | D648                        | Unannealed                | °C                 | 90          |
|                                          |                             |                           | °F                 | 194         |
| UL 燃燒等級<br>UL Flammability               | UL 94                       | -                         | -                  | 1.5 mm HB   |