

# CHIMEI

a step up

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## PMMA ACRYREX® CM-205M

Product Description 產品敘述: High viscosity, Higher flow compared to CM-205

| 物性<br>Properties                                 | ISO 測試方法<br>ISO Test Method | 測試條件<br>Test Condition | 單位<br>Unit        | CM-205M              |
|--------------------------------------------------|-----------------------------|------------------------|-------------------|----------------------|
| 熔融指數<br>Melt Flow Index                          | 1133                        | 230°C×3.8KG            | ml/10 min         | 3.0                  |
| 比重<br>Mass Density                               | 1183                        | 23 °C                  | g/cm <sup>3</sup> | 1.19                 |
| 拉伸強度<br>Tensile Strength                         | 527                         | 5 mm/min, yield        | MPa               | 68                   |
|                                                  |                             | 5 mm/min, break        | MPa               | 68                   |
| 延伸率<br>Tensile Elongation                        | 527                         | 5 mm/min               | %                 | 12                   |
| 彎曲強度<br>Flexural Strength                        | 178                         | 2 mm/min               | MPa               | 103                  |
| 彎曲彈性模數<br>Flexural Modulus                       |                             | 2 mm/min               | GPa               | 2.8                  |
| IZOD 衝擊強度<br>Izod Impact Strength                | 180/1A                      | 23 °C Notched          | KJ/m <sup>2</sup> | 2                    |
|                                                  |                             | -30 °C Notched         | KJ/m <sup>2</sup> | -                    |
| Charpy 衝擊強度<br>Charpy Impact Strength            | 179                         | 23 °C Notched          | KJ/m <sup>2</sup> | 2                    |
|                                                  |                             | -30 °C Notched         | KJ/m <sup>2</sup> | -                    |
| 維氏軟化溫度<br>Vicat Softening Temp.                  | 306                         | 1 Kg, 50 °C/hr         | °C                | 117                  |
|                                                  |                             | 5 Kg, 50 °C/hr         | °C                | 109                  |
| 熱變形溫度<br>Heat Distortion Temp.                   | 75/A                        | 1.8 MPa Unannealed     | °C                | 97                   |
|                                                  |                             | 1.8 MPa Annealed       | °C                | 106                  |
| 線膨脹係數<br>Coefficient of Linear Thermal Expansion | 11359                       | -                      | -                 | 6 X 10 <sup>-5</sup> |
| 燃燒等級<br>Flammability                             | -                           | UL-94                  | -                 | 1.5mm HB             |
| 成型收縮率<br>Mold Shrinkage                          | 294-4                       | -                      | %                 | 0.2~0.6              |
| 標記<br>Symbol                                     | 1043                        | -                      | -                 | >PMMA<               |

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Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own test

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