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## 尼龍-12 — 高透明級 PA-12 — HIGH CLARITY GRADE NYLON GRILAMID TR 90

| 性能<br>Properties                       | 測驗方法<br>Test Method | 測試條件<br>Conditions         |           | 單位<br>Units          | GRILAMID<br>TR90  |
|----------------------------------------|---------------------|----------------------------|-----------|----------------------|-------------------|
| 物理性能<br>Physical Properties            |                     |                            |           |                      |                   |
| 比重<br>Density                          | ISO 1183            | dry 乾燥時                    |           | g/cm <sup>3</sup>    | 1.0               |
| 吸水率<br>Water Absorption                | ISO 62              | 23°C/sat.                  |           | %                    | 3                 |
| 濕水率<br>Moisture Absorption             | ISO 62              | 23°C/50% r.h.              |           | %                    | 1.5               |
| 成形收縮率<br>Linear Molding Shrinkage      | ISO 294 / EMS       | long. / trans.             | dry 乾燥時   | %                    | 0.65 / 0.75       |
| 熱性能<br>Thermal Properties              |                     |                            |           |                      |                   |
| 融點<br>Melting Point                    | ISO 11357           | DSC                        | dry 乾燥時   | °C                   | 155 <sup>1)</sup> |
| 熱變形溫度<br>Heat Deflection Temperature   | ISO 75              | HDT/A (1.80 MPa)           | dry 乾燥時   | °C                   | 115               |
|                                        |                     | HDT/B (0.45 MPa)           |           |                      | 135               |
| 熱膨脹系數<br>Thermal Expansion Coefficient | ISO 11359           | 23-80°C<br>long. / trans.  | dry 乾燥時   | 10 <sup>-4</sup> / K | 0.9 / 0.9         |
| 最高使用溫度<br>Maximal Usage Temperature    | EMS                 | long term / short term     | dry 乾燥時   | °C                   | 80-100 / 120      |
| 燃燒性<br>Flammability                    | UL 94               | -                          |           | rating               | HB (0.75mm)       |
| 機械性能<br>Mechanical Properties          |                     |                            |           |                      |                   |
| 拉伸強度<br>Tensile Strength               | ISO 527             | yield / break<br>50 mm/min | cond. 吸濕後 | MPa                  | 60 / 45           |
| 拉伸長度<br>Tensile Elongation             | ISO 527             | yield / break<br>50 mm/min | cond. 吸濕後 | %                    | 6 / >50           |
| 拉伸模量<br>Tensile E-Modulus              | ISO 527             | 1 mm/min                   | cond. 吸濕後 | MPa                  | 1,600             |
| Charpy 衝擊強度<br>Charpy Impact Strength  | ISO 179/1eU         | 23°C / -30°C               | cond. 吸濕後 | kJ/m <sup>2</sup>    | >100 / >100       |
|                                        | ISO 179/1eA         | 23°C / -30°C (notched)     |           |                      | 13 / 12           |
| 硬度<br>Hardness                         | ISO 2039-1          | cond. 吸濕後                  |           | MPa                  | 90                |
| 電性能<br>Electrical Properties           |                     |                            |           |                      |                   |
| 耐電壓<br>Dielectric Strength             | IEC 243-1           | cond. 吸濕後                  |           | kV/mm                | 34                |
| 比較痕跡指數<br>Comparative Tracking Index   | IEC 112             | CTI                        | cond. 吸濕後 | -                    | 600               |
| 表面電阻系數<br>Specific Surface Resistivity | IEC 93              | cond. 吸濕後                  |           | Ω.cm                 | 10 <sup>12</sup>  |
| 體積電阻系數<br>Volume Resistivity           | IEC 93              | cond. 吸濕後                  |           | Ω                    | 10 <sup>13</sup>  |

1) Glass transition temperature

The test values &lt;conditioned&gt; were attained on test pieces stored according to ISO 1110.

上列數據僅供參考，並不為此承擔任何責任和保證。

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