

## MAPEX NYLON ENGINEERING PLASTICS

| Properties                                | UNIT   | Test Method | Mapex<br>A0520FN 01 |
|---|--|-------------|---------------------|
| <b>Mechanical</b>                         |  |             |                     |
| 抗張強度<br>Tensile Str, Yield                | Psi(Mpa)   | D-638       | 20000(138)          |
| 斷裂伸長率<br>Tensile Elongation, Break        | %  | D-638       | 2.0                 |
| 彎曲強度<br>Flexural Strength                 | Psi(Mpa)   | D-790       | 32000(221)          |
| 彎曲彈性率<br>Flexural Modulus                 | Psi(Mpa)   | D-790       | 1400000(9649)       |
| IZOD衝擊強度<br>Izod Impact Strength, Notched | ft.-lb/in (J/m) 23°C<br>-30°C  | D-256       | 1.8(96)<br>-        |
| 硬度<br>Rockwell Hardness                   | R-Scale  | D-785       | -                   |
| <b>Thermal</b>                            |  |             |                     |
| 融點<br>Melting Point                       | °C   | D-789       | 260                 |
| 熱變形溫度<br>Heat Deflection Temperature      | °C 66 psi(0.45Mpa)<br>264 psi(1.82Mpa)   | D-648       | -<br>245            |
| 線膨脹係數<br>Coefficient of Thermal Expansion | E-5 1/°C   | D-696       | -                   |
| 熾熱電線耐燃試驗<br>Glow Wire Test                | °C   | IEC 695-2-1 | -                   |
| <b>Electrical</b>                         |  |             |                     |
| 介電強度<br>Dielectric Strength               | kv/mm  | D-149       | -                   |
| 體積電阻<br>Volume Resistivity                | ohm-cm   | D-257       | -                   |
| 耐電弧<br>Arc Resistance                     | Sec  | D495        | -                   |
| <b>Other</b>                              |  |             |                     |
| 比重<br>Specific Gravity                    | -  | D-792       | 1.60                |
| 流動指數<br>Melt Flow Index                   | g/10min<br>°C/ Kg)   | D-1238      | -                   |
| 成型收縮率<br>Mold Shrinkage , Flow            | %<br>3mm   | D-955       | 0.30~0.45           |
| 吸水率<br>Water Absorption                   | %<br>23°C,24hr   | D-570       | -                   |
| <b>Flammability</b>                       |  |             |                     |
| 燃燒性<br>Flammability                       | 1/8"<br>1/16"<br>1/32"   | UL-94       | -<br>-<br>V0        |
| 附註<br>Remark                              | Polyamide 66 ,30%Glass Fiber ,Natural Color , Flame Retardant 1/32" V-0 ,RoHS cerification |             |                     |

\*Typical properties can be subject to change without further notice.

ISO9001 / ISO14001 / IECQ QC080000 ASSURANCE

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| 單位換算 | 抗張強度, 彎曲強度, 彎曲彈性率              | IZOD 衝擊強度                   |
|------|--------------------------------|-----------------------------|
|      | 1psi=0.0703 kg/cm <sup>2</sup> | 1 ft.-lb/in =5.45 kg.-cm/cm |
|      | 1Mpa=10.2 kg/cm <sup>2</sup>   | 1J/m=0.102 kg.-cm/cm        |