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## 防火 V-2 及防紫外光級 FLAME RETARDANT V-2 & UV – STABILIZER GRADE PC IUPILON S3000VUR

| 性能<br>Properties                                                |         | 測驗方法<br>Test Standards       | 測試條件<br>Conditions | 單位<br>Units          | IUPILON<br>S3000VUR |
|-----------------------------------------------------------------|---------|------------------------------|--------------------|----------------------|---------------------|
| <b>物理性能</b><br>Physical Properties                              |         |                              |                    |                      |                     |
| 比重<br>Specific Gravity                                          |         | ISO 1183                     | —                  | g/cm <sup>3</sup>    | 1.2                 |
| 吸水率<br>Water Absorption                                         |         | —                            | 23°C, 24hr         | %                    | 0.24                |
| 熔融流動率<br>Melt Flow Index                                        |         | ISO 1133                     | —                  | g/10min              | 16                  |
| 成形收縮率(3mmt 100mm Ø 圓盤)<br>Molding Shrinkage (3mmt 100mm Ø Disk) |         | —                            | MD 平行方向            | %                    | 0.6                 |
|                                                                 |         |                              | TD 垂直方向            |                      | 0.6                 |
| 負荷撓曲溫度<br>Deflection Temperature Under Load                     |         | ISO 75-1<br>ISO 75-2         | 1.80 MPa           | °C                   | 124                 |
|                                                                 |         |                              | 0.45 MPa           |                      | 139                 |
| 線膨脹係數<br>Coefficient of Linear Thermal Expansion                |         | Thermomechanical<br>Analysis | MD                 | 10 <sup>-5</sup> / K | 6.5E-5              |
|                                                                 |         |                              | TD                 |                      | 6.6E-5              |
| 燃燒性<br>Flammability                                             |         | —                            | UL-94              | —                    | V-2 (1.5mm)         |
| <b>機械性能</b><br>Mechanical Properties                            |         |                              |                    |                      |                     |
| 拉伸模量<br>Tensile Modulus                                         |         | ISO 527-1<br>ISO 527-2       | —                  | MPa                  | 2,400               |
| 屈服應力<br>Yield Stress                                            |         | ISO 527-1<br>ISO 527-2       | —                  | MPa                  | 62                  |
| 屈服應變<br>Yield Strain                                            |         | ISO 527-1<br>ISO 527-2       | —                  | %                    | 6.7                 |
| 名義斷裂延伸率<br>Nominal Strain at Break                              |         | ISO 527-1<br>ISO 527-2       | —                  | %                    | 119                 |
| 撓曲強度<br>Flexural Strength                                       |         | ISO 178                      | —                  | MPa                  | 93                  |
| 彎曲模量<br>Flexural Modulus                                        |         | ISO 178                      | —                  | MPa                  | 2,300               |
| Charpy 衝擊強度<br>Charpy Impact Strength                           |         | ISO 179                      | 23°C               | kJ/m                 | NB                  |
| Charpy 衝擊強度<br>Charpy Impact Strength                           | Notched | ISO 179                      | 23°C               | kJ/m                 | 67                  |
| <b>電性能</b><br>Electrical Properties                             |         |                              |                    |                      |                     |
| 介電常數<br>Dielectric Constant                                     |         | IEC 250                      | 100 Hz             | —                    | 3.1                 |
|                                                                 |         |                              | 1 MHz              |                      | 3.1                 |
| 介電損耗正切<br>Dielectric Dissipation Factor                         |         | IEC 250                      | 100 Hz             | —                    | 0.0006              |
|                                                                 |         |                              | 1 MHz              |                      | 0.0090              |
| 表面電阻係數<br>Surface Resistivity                                   |         | IEC 93                       | —                  | Ω                    | 6E + 15             |
| 體積電阻係數<br>Volume Resistivity                                    |         | IEC 93                       | —                  | Ω . m                | 3E + 14             |
| 耐電壓<br>Dielectric Strength                                      |         | IEC 243-1                    | 3mm                | MV/m                 | 18                  |

上列數據仕僅供參考，並不為此承擔任何責任和保證。

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