

## IV2500



UV-stabilized PC with UV cut-off under 380 nm, iced-clear color.

IV grade is mainly used for safety glasses, sun glasses and daylight roof.

紫外線穩定PC具備UV 380nm以下波長截止功能，冰色。

IV規格主要應用於安全眼鏡，太陽眼鏡及採光罩。

| Property  | Method      | Units                  | IV2500                                   |
|---|-------------|------------------------|--|
| ISO identification mark / ISO 識別標誌              | -           | -                      | >PC<                                     |
| <b>Physical / 物性</b>                            |             |                        |  |
| MFR / 熔融指數                                      | ISO 1133    | g/10min                | 7  |
| Density / 密度                                    | ISO 1183    | g/cm <sup>3</sup>      | 1.2                                      |
| Water absorption / 吸水率 (50%RH 24hr)             | ISO 62      | %                      | 0.23                                     |
| <b>Mechanical / 機械特性</b>                        |             |                        |  |
| Tensile stress at Yield / 拉伸強度                  | ISO 527-1,2 | MPa                    | 65                                       |
| Tensile strain at break / 拉伸斷裂延伸率               | ISO 527-1,2 | %                      | 90                                       |
| Flexural strength / 抗彎強度                        | ISO 178     | MPa                    | 90                                       |
| Flexural modulus / 抗彎模數                         | ISO 178     | GPa                    | 2.2                                      |
| Charpy impact strength(Notched) / Charpy 缺口衝擊強度 | ISO 179-1   | kJ/m <sup>2</sup>      | 80                                       |
| Rockwell hardness / 洛氏硬度                        | ISO 2039-2  | R/M scale              | R120/M50                                 |
| <b>Thermal / 熱性質</b>                            |             |                        |  |
| Heat deflection temperature / 熱變形溫度 (1.8 MPa)   | ISO 75-1,2  | °C                     | 125                                      |
| Linear thermal expansion coefficient / 線性熱膨脹係數  | ISO 11359-2 | x 10 <sup>-5</sup> /°C | 6.5                                      |
| Mold shrinkage / 模收縮率                           | ASTM D955   | %                      | 0.5 ~ 0.7                                |
| <b>Optical / 光學性質</b>                           |             |                        |  |
| Total luminous transmittance / 全光穿透率            | ISO 13468-1 | %                      | 85 ~ 90                                  |
| <b>Electrical / 電性質</b>                         |             |                        |  |
| Dielectric strength / 介電強度                      | IEC 60243-1 | kV/mm                  | 30                                       |
| Volume resistivity / 體積阻抗                       | ASTM D257   | Ω · cm                 | > 10 <sup>16</sup>                       |
| Dielectric Constant / 介電常數 (1 MHz)              | IEC 60250   | -                      | 2.85                                     |
| Dielectric dissipation factor / 介電損耗因子 (1 MHz)  | IEC 60250   | -                      | 0.0092                                   |
| <b>UL rating / UL 等級</b>                        |             |                        |  |
| Flammability / 燃燒性能                             | UL94        | (Class)                | V-2 (0.36 ~ 2.9 mm)<br>HB (3.0 ~ 6.0 mm) |
| CTI / 相對漏電指數                                    | UL746A      | (PLC level)            | 2  |
| RTI / 相對溫度指數 (Elec)                             | UL746B      | °C                     | 130                                      |
| RTI / 相對溫度指數 (Imp)                              | UL746B      | °C                     | 125                                      |
| RTI / 相對溫度指數 (Str)                              | UL746B      | °C                     | 130                                      |
| UV, water exposure or immersion / 戶外使用評估        | UL746C      | -                      | f2                                       |
| <b>Standard molding parameters / 標準加工參數</b>     |             |                        |  |
| Pre-drying condition / 預乾燥條件                    | -           | -                      | 120 °C, 5~8hours                         |
| Cylinder temperature / 套筒溫度                     | -           | -                      | 260 ~ 300 °C<br>(Max.320 °C)             |
| Mold temperature / 模具溫度                         | -           | -                      | 80 ~ 120 °C                              |

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The above typical data are supplied only for technical information, not guaranteed values.

This document may be revised without prior notice.

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