



台達通用及耐衝擊聚苯乙烯

TAITAREX GPPS/HIPS

## 耐衝擊聚苯乙烯(High Impact Polystyrene) HIPS 616

| 特性                                                                                                                                                                 | Characteristics                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>● 超高耐衝擊押出級</li> <li>● 超高耐衝擊強度</li> <li>● 低殘留單體量</li> <li>● 耐熱性佳</li> <li>● 底色穩定</li> <li>● 良好加工性</li> <li>● 高流動性</li> </ul> | <ul style="list-style-type: none"> <li>● Super High Impact Extrusion Grade</li> <li>● Super High Impact Strength</li> <li>● Low Residual Monomer</li> <li>● Good Heat Resistance</li> <li>● Base Color Stability</li> <li>● Good Transparency</li> <li>● Easy Processing</li> <li>● High Flow</li> </ul> |
| 應用                                                                                                                                                                 | Applications                                                                                                                                                                                                                                                                                             |
| 押板製品、線軸、浮球等                                                                                                                                                        | Sheets, cable reels.                                                                                                                                                                                                                                                                                     |

| 物理性質 Physical Properties                  |             |                                                              |                    |               |
|-------------------------------------------|-------------|--------------------------------------------------------------|--------------------|---------------|
| Properties                                | Test Method | Test Condition                                               | Unit               | Typical Value |
| 比重<br>Specific Gravity                    | ASTM D792   | 23℃                                                          | ---                | 1.046         |
|                                           | ISO 1183    |                                                              | g/cm <sup>3</sup>  | 1.04          |
| 流動指數<br>Melt Flow Index                   | ASTM D1238  | 200℃ , 5 kg load                                             | g/10min            | 2.5           |
|                                           | ISO 1133    |                                                              | ml/10min           | 2.7           |
| 抗張強度<br>Tensile Strength at Yield         | ASTM D638   | 23℃ , 1/8" Sample                                            | kg/cm <sup>2</sup> | 260           |
|                                           | ISO 527     |                                                              | Mpa                | 24            |
| 伸長率<br>Elongation at Break                | ASTM D638   | 23℃ , 1/8" Sample                                            | %                  | 50            |
|                                           | ISO 527     |                                                              |                    | 55            |
| Izod 耐衝擊強度<br>Izod Impact Strength        | ASTM D256   | 23℃ , A method, notched<br>1/4"×1/2"×5/2"                    | kg-cm/cm           | 9             |
|                                           |             | 1/8"×1/2"×5/2"                                               |                    | 14            |
|                                           | ISO 180A    | 23℃ Notched                                                  | KJ/m <sup>2</sup>  | 12            |
| Vicat 軟化溫度<br>Vicat Softening Temperature | ASTM D1525  | 1 kg load , 3 mm Thick ( 120<br>℃/hr )                       | ℃                  | 102           |
|                                           | ISO 306     | 1 kg load, 3 mm Thick( 50℃/hr )                              |                    | 100           |
| 熱變形溫度<br>Heat Distortion Temperature      | ASTM D648   | Unannealed, 1/2in, 18.56 kg/cm <sup>2</sup><br>load pressure | ℃                  | 89            |
|                                           | ISO 75A     | Unannealed, 1/2 in, 1.80Mpa<br>load pressure                 |                    | 89            |
| 燃燒性<br>Flammability                       | UL-94       | 1/16" Sample                                                 | File No.<br>E50263 | 94HB          |
| 殘留苯乙烯單體<br>Residual SM monomer            | ---         | ---                                                          | ppm                | < 800         |
| 黃色指數(YI)<br>Yellow Index                  | ---         | ---                                                          | ---                | -4            |

註：上表所列數據依據 ASTM 試驗方法所測得，僅供參考用。

Note : The data listed represent average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made.