

|   |                |                   | Injection molding |               |                             |                 |               |                 |             |
|---|----------------|-------------------|-------------------|---------------|-----------------------------|-----------------|---------------|-----------------|-------------|
|   |                |                   | Ultra high flow   | High flow     | Heat resistance & High flow | Heat resistance | High-strength |                 |             |
|   |                |                   |                   |               |                             |                 | Standard      | Heat resistance | Medium flow |
| <b>G100C</b>                                  | <b>G200C</b>   | <b>G210C</b>      | <b>G320C</b>      | <b>MW1C,D</b> | <b>MW2C,D</b>               | <b>MT5D</b>     |               |                 |             |
| Melt mass-flow rate                           | ISO 1133       | g/10min           | 28                | 9.0           | 9.0                         | 4.0             | 1.9           | 2.7             | 2.9         |
| Vicat softening temperature (load 50N)        | ISO 306        | °C                | 88                | 89            | 97                          | 102             | 92            | 95              | 97          |
| Heat deflection temperature under 1.8MPa load | ISO 75-2       | °C                | 70                | 70            | 77                          | 81              | 74            | 76              | 78          |
| Charpy impact strength (notched)              | ISO 179        | kJ/m <sup>2</sup> | 1.1               | 1.4           | 1.3                         | 1.9             | 2.5           | 2.2             | 2.0         |
| Tensile stress at yield                       | ISO 527-1      | MPa               | 39                | 41            | 42                          | 45              | 45            | 46              | 46          |
| Tensile strain at break                       | ISO 527-1      | %                 | 2                 | 2             | 2                           | 3               | 3             | 3               | 3           |
| Flexural strength                             | ISO 178        | MPa               | 74                | 80            | 89                          | 98              | 93            | 93              | 95          |
| Flexural modulus                              | ISO 178        | MPa               | 3150              | 3200          | 3200                        | 3200            | 3200          | 3200            | 3200        |
| Ball pressure test                            | ICE 60695-10-2 | °C                | 75                | 75            | 85                          | 95              | 80            | 85              | 90          |
| Flammability (UL94 Classification)            | UL94           | -                 | HB                | HB            | HB                          | HB              | HB            | HB              | HB          |

|   |                |                   | Extrusion (foaming)     |                       |                   |
|---|----------------|-------------------|-------------------------|-----------------------|-------------------|
|   |                |                   | Medium molecular weight | High molecular weight | High melt tension |
|   |                |                   | <b>HRM12</b>            | <b>HRM26</b>          | <b>HRM48N</b>     |
| Melt mass-flow rate                           | ISO 1133       | g/10min           | 5.4                     | 1.6                   | 2.2               |
| Vicat softening temperature (load 50N)        | ISO 306        | °C                | 102                     | 103                   | 102               |
| Heat deflection temperature under 1.8MPa load | ISO 75-2       | °C                | 81                      | 82                    | 81                |
| Charpy impact strength (notched)              | ISO 179        | kJ/m <sup>2</sup> | 1.4                     | 2.0                   | 2.1               |
| Tensile stress at yield                       | ISO 527-1      | MPa               | 45                      | 50                    | 50                |
| Tensile strain at break                       | ISO 527-1      | %                 | 3                       | 3                     | 3                 |
| Flexural strength                             | ISO 178        | MPa               | 95                      | 104                   | 99                |
| Flexural modulus                              | ISO 178        | MPa               | 3200                    | 3200                  | 3250              |
| Ball pressure test                            | ICE 60695-10-2 | °C                | -                       | -                     | -                 |
| Flammability (UL94 Classification)            | UL94           | -                 | -                       | HB                    | -                 |

**TOYO STYRENE GPPS**

※All values and information shown above are subject to revision without notice, they are given here for reference only, and not as guaranteed values.