

| Property                                      | Test Condition      | Test Method ISO | Units                | High Impact/Nylon6 |           |
|-----------------------------------------------|---------------------|-----------------|----------------------|--------------------|-----------|
|                                               |                     |                 |                      | Super high Impact  |           |
|                                               |                     |                 |                      | U141               |           |
|                                               |                     |                 |                      | >PA6-I<            |           |
|                                               |                     |                 |                      | Dry                | 2.1%water |
| Physical property                             |                     |                 |                      |                    |           |
| Water Absorption                              | 24hrs. in 23℃ water | ISO62           | %                    | 0.7                | -         |
| Water Absorption                              | 23℃ in water        | ISO62           | %                    | 6                  | -         |
| Density                                       | 23℃                 | ISO1183         | kg/m <sup>3</sup>    | 1060               | -         |
| Mechanical property                           |                     |                 |                      |                    |           |
| Tensile strength                              | -40℃                | ISO527-1,2      | MPa                  | 80                 | 68        |
| Tensile strength                              | 23℃                 | ISO527-1,2      | MPa                  | 50                 | 32        |
| Elongation at Break                           | -40℃                | ISO527-1,2      | %                    | 15.5               | 21.5      |
| Elongation at Break                           | 23℃                 | ISO527-1,2      | %                    | 50                 | 50        |
| Flexural Strength                             | -40℃                | ISO178          | MPa                  | 65                 | 90        |
| Flexural Strength                             | 23℃                 | ISO178          | MPa                  | 55                 | 33        |
| Flexural Modulus                              | -40℃                | ISO178          | GPa                  | 2.3                | 2.3       |
| Flexural Modulus                              | 23℃                 | ISO178          | GPa                  | 1.5                | 0.7       |
| Coefficient of friction (Without lubrication) | Vs metal            | Suzuki Method   | -                    | -                  | -         |
| Rockwell Hardness                             | 23℃                 | ISO2039-2       | R Scale              | 112                | -         |
| Taper Abrasion                                |                     | ISO9352         | mg/1000times         | 7～8                | -         |
| Charpy Impact Strength (V-notched)            | -40℃                | ISO179          | kJ/m <sup>2</sup>    | 33.5               | 37        |
| Charpy Impact Strength (V-notched)            | 23℃                 | ISO179          | kJ/m <sup>2</sup>    | 105                | 130       |
| Charpy Impact Strength (Unnotched)            | 23℃                 | ISO179          | kJ/m <sup>2</sup>    | 破断せず               | 破断せず      |
| Heat property                                 |                     |                 |                      |                    |           |
| Melting Point                                 |                     | DSC Method      | ℃                    | 225                | -         |
| Coef of Linear Thermal Expansion              |                     | ISO11359-2      | ×10 <sup>-5</sup> /℃ | 7～8                | -         |
| Heat Deflection Temp Low Load                 | 0.45MPa             | ISO75-1,2       | ℃                    | 155                | -         |
| Heat Deflection Temp High Load                | 1.80MPa             | ISO75-1,2       | ℃                    | 55                 | -         |
| Molding property                              |                     |                 |                      |                    |           |
| Mold shrinkage(Machine Direction)             | 80×80×3mmt          | Toray Method    | %                    | -                  | -         |
| Mold shrinkage(Transverse Direction)          | 80×80×3mmt          | Toray Method    | %                    | 0.8～1.3            | -         |

These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

