

| Property                                      | Test Condition      | Test Method ISO | Units                  | Non-halogen, Flame retardant reinforced |
|-----------------------------------------------|---------------------|-----------------|------------------------|-----------------------------------------|
|                                               |                     |                 |                        | GF15%、V-0                               |
|                                               |                     |                 |                        | EC44G-15                                |
|                                               |                     |                 |                        | >PBT-P-GF15 FR(40)<                     |
| Physical property                             |                     |                 |                        |                                         |
| Water Absorption                              | 24hrs. in 23℃ water | ISO62           | %                      | 0.07                                    |
| Density                                       | 23℃                 | ISO1183         | kg/m <sup>3</sup>      | 1480                                    |
| Mechanical property                           |                     |                 |                        |                                         |
| Tensile strength                              | 23℃                 | ISO527-1,2      | MPa                    | 90                                      |
| Elongation at Break                           | 23℃                 | ISO527-1,2      | %                      | 1.7                                     |
| Tensile Modulus                               | 23℃                 | ISO527-1,2      | GPa                    | -                                       |
| Flexural Strength                             | 23℃                 | ISO178          | MPa                    | 140                                     |
| Flexural Modulus                              | 23℃                 | ISO178          | GPa                    | 5.6                                     |
| Coefficient of friction (Without lubrication) | Vs metal            | Suzuki Method   | -                      | -                                       |
| Coefficient of friction                       | Vs metal            | -               | -                      | -                                       |
| Rockwell Hardness                             | 23℃                 | ISO2039-2       | R Scale                | -                                       |
| Charpy Impact Strength (V-notched)            | 23℃                 | ISO179          | kJ/m <sup>2</sup>      | -                                       |
| Charpy Impact Strength (Unnotched)            | 23℃                 | ISO179          | kJ/m <sup>2</sup>      | -                                       |
| Heat property                                 |                     |                 |                        |                                         |
| Coef of Linear Thermal Expansion              | -30~100℃            | ISO11359-2      | ×10 <sup>-5</sup> /℃   | -                                       |
| Heat Deflection Temp Low Load                 | 0.45MPa             | ISO75-1,2       | ℃                      | 220                                     |
| Heat Deflection Temp High Load                | 1.82MPa             | ISO75-1,2       | ℃                      | 192                                     |
| Flammability                                  |                     | UL94            | rank/thickness m<br>mt | V0(1/32")                               |
| Molding property                              |                     |                 |                        |                                         |
| Mold shrinkage(Machine Direction)             | 80×80×3mmt          | Toray Method    | %                      | 0.5                                     |
| Mold shrinkage(Transverse Direction)          | 80×80×3mmt          | Toray Method    | %                      | 1                                       |
| Bar Flow                                      | 250℃,93MPa,1mmt     | Toray Method    | ×10 <sup>-3</sup> m    | 130                                     |

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

