| Property | Test Condition | Test Method ISO | Units | GF reinforced<br>GF40%, High flow, Low flash<br>A504FG1<br>>PPS-GF40< |
|---|---|---|---|---|
| **Physical property** | | | | |
| Water Absorption | 24hrs. in 23℃ water | ISO62 | % | 0.02 |
| Density | 23℃ | ISO1183 | $kg/m^3$ | 1660 |
| Color | | | | Natural/Black |
| **Mechanical property** | | | | |
| Tensile strength | 23℃ | ISO527-1,2 | MPa | 165 |
| Elongation at Break | 23℃ | ISO527-1,2 | % | 1.4 |
| Flexural Strength | 23℃ | ISO178 | MPa | 250 |
| Flexural Modulus | 23℃ | ISO178 | GPa | 15.5 |
| Coefficient of friction | Vs metal | - | - | 0.25 |
| Shear Strength | 23℃ | JIS K7214 | MPa | 75 |
| Rockwell Hardness | | ISO2039-2 | R Scale | 123 |
| Taper Abrasion | | ISO9352 | mg/1000times | 50 |
| Charpy Impact Strength（V-notched） | 23℃ | ISO179 | $kJ/m^2$ | 10 |
| Charpy Impact Strength（Unnotched） | 23℃ | ISO179 | $kJ/m^2$ | 30 |
| **Heat property** | | | | |
| Melting Point | | ISO11357-3 | ℃ | 278 |
| Coef of Linear Thermal Expansion | Machine Direction | ISO11359-2 | $\times10^{-5}/K$ | 2.3 |
| Coef of Linear Thermal Expansion | Transverse Direction | ISO11359-2 | $\times10^{-5}/K$ | 3.1 |
| Heat Deflection Temp High Load | 1.80MPa | ISO75-1,2 | ℃ | 260 |
| Flammability | | UL94 | rank/thickness mmt | V-0（0.28mmt） |
| **Electrical property** | | | | |
| Volume Resistivity | | IEC60093 | Ω・m | $10^{14}$ |
| Dielectric Strength | | IEC60243-1 | MV/m | 22 |
| Dielectric Constant | 23℃、60%RH、1MHz | IEC 60250 | - | 3.6 |
| Dissipation Factor | 23℃、60%RH、1MHz | IEC 60250 | - | 0.002 |
| **Molding property** | | | | |
| Mold shrinkage(Machine Direction) | 80×80×3mmt | Toray Method | % | 0.2 |
| Mold shrinkage(Transverse Direction) | 80×80×3mmt | Toray Method | % | 0.8 |
| Bar Flow | 320℃,98MPa,1mmt | Toray Method | $\times10^{-3}m$ | 200 |

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