

| Property                             | Test Condition       | Test Method ISO | Units                  | GF+Mineral filler reinforced |  |
|--------------------------------------|----------------------|-----------------|------------------------|------------------------------|--|
|                                      |                      |                 |                        | High filler, UL746(f1)       |  |
|                                      |                      |                 |                        | AR10M                        |  |
|                                      |                      |                 |                        | >PPS-GF+MD65<                |  |
| Physical property                    |                      |                 |                        |                              |  |
| Water Absorption                     | 24hrs. in 23℃ water  | ISO62           | %                      | 0.02                         |  |
| Density                              | 23℃                  | ISO1183         | kg/m <sup>3</sup>      | 1960                         |  |
| Color                                |                      |                 |                        | Natural/Black                |  |
| Mechanical property                  |                      |                 |                        |                              |  |
| Tensile strength                     | 23℃                  | ISO527-1,2      | MPa                    | 140                          |  |
| Elongation at Break                  | 23℃                  | ISO527-1,2      | %                      | 0.9                          |  |
| Flexural Strength                    | 23℃                  | ISO178          | MPa                    | 225                          |  |
| Flexural Modulus                     | 23℃                  | ISO178          | GPa                    | 20                           |  |
| Coefficient of friction              | Vs metal             | -               | -                      | 0.3                          |  |
| Shear Strength                       | 23℃                  | JIS K7214       | MPa                    | 60                           |  |
| Rockwell Hardness                    |                      | ISO2039-2       | R Scale                | 123                          |  |
| Taper Abrasion                       |                      | ISO9352         | mg/1000times           | 70                           |  |
| Charpy Impact Strength (V-notched)   | 23℃                  | ISO179          | kJ/m <sup>2</sup>      | 8                            |  |
| Charpy Impact Strength (Unnotched)   | 23℃                  | ISO179          | kJ/m <sup>2</sup>      | 20                           |  |
| Heat property                        |                      |                 |                        |                              |  |
| Melting Point                        |                      | ISO11357-3      | ℃                      | 278                          |  |
| Coef of Linear Thermal Expansion     | Machine Direction    | ISO11359-2      | ×10 <sup>-5</sup> /K   | 1.8                          |  |
| Coef of Linear Thermal Expansion     | Transverse Direction | ISO11359-2      | ×10 <sup>-5</sup> /K   | 2.6                          |  |
| Heat Deflection Temp High Load       | 1.80MPa              | ISO75-1,2       | ℃                      | 260                          |  |
| Flammability                         |                      | UL94            | rank/thickness m<br>mt | V-0 (0.71mmt)                |  |
| Electrical property                  |                      |                 |                        |                              |  |
| Volume Resistivity                   |                      | IEC60093        | Ω · m                  | 10 <sup>14</sup>             |  |
| Dielectric Strength                  |                      | IEC60243-1      | MV/m                   | 22                           |  |
| Dielectric Constant                  | 23℃、60%RH、1MHz       | IEC 60250       | -                      | 4.9                          |  |
| 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    | %                      | 0.6                          |  |
| Bar Flow                             | 320℃,98MPa,1mmt      | Toray Method    | ×10 <sup>-3</sup> m    | 110                          |  |

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