

| Property                             | Test Condition       | Test Method ISO | Units                  | Short carbon fiber reinforced P<br>C |  |
|--------------------------------------|----------------------|-----------------|------------------------|--------------------------------------|--|
|                                      |                      |                 |                        | CF8%, Flame retardant                |  |
|                                      |                      |                 |                        | NX85T-10                             |  |
|                                      |                      |                 |                        | >PC-CF10<                            |  |
| Physical property                    |                      |                 |                        |                                      |  |
| Content of filler                    |                      | -               | wt%                    | 8                                    |  |
| Water Absorption                     | 23℃×50%RH in water   |                 | %                      | -                                    |  |
| Density                              | 23℃                  | ISO1183         | kg/m <sup>3</sup>      | 1225                                 |  |
| Mechanical property                  |                      |                 |                        |                                      |  |
| Tensile strength                     | 23℃                  | ISO527-1,2      | MPa                    | 56                                   |  |
| Elongation at Break                  | 23℃                  | ISO527-1,2      | %                      | 4                                    |  |
| Flexural Strength                    | 23℃                  | ISO178          | MPa                    | 111                                  |  |
| Flexural Modulus                     | 23℃                  | ISO178          | GPa                    | 6.4                                  |  |
| Coefficient of friction              | Vs S45C、1MPa、0.33m/s | Suzuki Method   | -                      | -                                    |  |
| Coefficient of friction              | Vs SUS、1MPa、0.33m/s  | Suzuki Method   | -                      | -                                    |  |
| Limit of PV                          | Vs S45C              | Suzuki Method   | Mpa · m/s              | -                                    |  |
| Limit of PV                          | Vs SUS               | Suzuki Method   | Mpa · m/s              | -                                    |  |
| Charpy Impact Strength (V-notched)   | 23℃                  | ISO179          | kJ/m <sup>2</sup>      | 6.3                                  |  |
| Heat property                        |                      |                 |                        |                                      |  |
| Melting Point                        |                      | DSC Method      | ℃                      | -                                    |  |
| Coef of Linear Thermal Expansion     |                      | ISO11359-2      | ×10 <sup>-5</sup> /℃   | -                                    |  |
| Heat Deflection Temp High Load       | 1.80MPa              | ISO75-1,2       | ℃                      | 121                                  |  |
| Flammability                         |                      | UL94            | rank/thickness m<br>mt | V-0 (1.5mmt)                         |  |
| Molding property                     |                      |                 |                        |                                      |  |
| Mold shrinkage(Machine Direction)    | 80×80×3mmt           | Toray Method    | %                      | 0.25                                 |  |
| Mold shrinkage(Transverse Direction) | 80×80×3mmt           | Toray Method    | %                      | 0.25~0.55                            |  |
| Melt Flow Rate                       | 250℃/98N             | ISO 1133        | g/10min                | 26                                   |  |

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

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