



| Material Designation                            |                            |                   | D2100F                                     | D2102F                                     | D2500F                              |
|---|----------------------------|-------------------|--|--|-------------------------------------|
| Containing Filler                               |                            |                   | Glass fiber                                | Glass fiber                                | Glass fiber                         |
| Molding Method (Compression/Transfer/Injection) |                            |                   | T / I                                      | T / I                                      | T / I                               |
| Characteristic                                  | Non Red phosphorus         |                   | ○  | ○  | ○                                   |
|   | High strength              |                   | ○  | ○  | ○                                   |
|   | High insulation            |                   | ○  | ○  | ○                                   |
|   | Dimensional stability      |                   |  |  |                                     |
|   | Water resistance           |                   |  |  |                                     |
| Others  |                            |                   |  |  |                                     |
| Testing Head                                    |                            | Unit              | Method                                     |  |                                     |
| Dielectric Resistance                           |                            | MV/m              | JIS K 6911                                 | 11 - 14                                    | 12 - 14                             |
| Insulation Resistance                           | Ordinary state             | Ω                 | JIS K 6911                                 | 10 <sup>14</sup> - 10 <sup>15</sup>        | 10 <sup>14</sup> - 10 <sup>15</sup> |
|   | After boiling              | Ω                 | JIS K 6911                                 | 10 <sup>13</sup> - 10 <sup>14</sup>        | 10 <sup>13</sup> - 10 <sup>14</sup> |
| Permittivity                                    |                            | -                 | JIS K 6911                                 | 5.0 - 5.5                                  | 4.3 - 4.6                           |
| Loss Tangent                                    |                            | -                 | JIS K 6911                                 | 0.015 - 0.020                              | 0.010 - 0.015                       |
| Arc Resistance                                  |                            | s                 | JIS K 6911                                 | 180<                                       | 140<                                |
| Tracking Resistance                             |                            | CTI(V)            | IEC 60112                                  | 600<                                       | 600<                                |
| Flexural Strength                               |                            | Mpa               | JIS K 7171                                 | 118 - 137                                  | 147 - 167                           |
| Flexural Modulus                                |                            | MPa               | JIS K 7171                                 | -  | -                                   |
| Charpy Impact Strength                          |                            | kJ/m <sup>2</sup> | JIS K 7111                                 | 4.9 - 6.9                                  | 5.9 - 7.8                           |
| Tensile Strength                                |                            | MPa               | JIS K 6911                                 | -  | -                                   |
| Compressive Strength                            |                            | MPa               | JIS K 6911                                 | -  | -                                   |
| Rockwell Hardness                               |                            | (HR·M)            | JIS K 6911                                 | -  | -                                   |
| Molding Shrinkage                               |                            | %                 | JIS K 6911                                 | 0.60 - 0.90                                | 0.60 - 0.90                         |
| Water Absorption                                |                            | %                 | JIS K 6911                                 | -  | -                                   |
| Specific Gravity                                |                            | -                 | JIS K 7112                                 | 1.90 - 1.95                                | 1.90 - 1.95                         |
| Appearance after Heating                        |                            | °C                | JIS K 6911                                 | 210  | 210                                 |
| Heat deflection temperature                     |                            | °C                | JIS K 7191                                 | 230 - 250                                  | 240 - 250                           |
| Flammability ※2                                 |                            | -                 | UL 94                                      | V-0  | V-0                                 |
| Use (e.g.)                                      | Automotive components      |                   | ○(Commutator)                              | ○(Commutator)                              | ○(Commutator)                       |
|   | Electronic components      |                   | ○(Relay ,Switch, Bobbin,Connector ,Socket) | ○(Relay ,Switch, Bobbin,Connector ,Socket) | ○(Switch)                           |
|   | Measuring instrument parts |                   |  |  |                                     |
|   | Others                     |                   |  |  |                                     |

Data in this paper are catalog values(Typical value). It is not a guaranteed value.

In addition to the listed grades, some grades are available upon request.

#### Contact Us



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