

## Properties

### PPS-GF50-01

Long glass fiber-reinforced PPS resin (GF50%)

| Properties                        | Test methods | Test conditions | Units |        |
|-----------------------------------|--------------|-----------------|-------|--------|
| Tensile strength                  | ISO 527      | -               | MPa   | 190    |
| Flexural strength                 | ISO 178      | -               | MPa   | 280    |
| Flexural modulus                  | ISO 178      | -               | MPa   | 19,000 |
| Notched Charpy impact strength    | ISO 179/1eA  | 23 deg C        | kJ/m2 | 22     |
| Deflection temperature under load | ISO 75       | 1.80MPa         | deg C | 281    |
| Density                           | ISO 1183     | -               | g/cm3 | 1.75   |

Note

•Values are typical, not quality assured.

### Typical settings for processing

| Preliminary drying     | Barrel temperature(deg C) |         |         |         | Screw rotation<br>(rpm) | Back pressure<br>(MPa) | Mold temperature<br>(deg C) |
|------------------------|---------------------------|---------|---------|---------|-------------------------|------------------------|-----------------------------|
|                        | Nozzle                    | Front   | Middle  | Back    |                         |                        |                             |
| 3-5hrs<br>120-140deg C | 300-320                   | 310-330 | 310-330 | 310-330 | 40-60                   | 5-10                   | 130-150                     |