# Generic PPS, Branched - Carbon Fiber

Branched Polyphenylene Sulfide

Generic

## Message:

This data represents typical values that have been calculated from all products classified as: Generic PPS, Branched - Carbon Fiber
This information is provided for comparative purposes only.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Carbon fiber reinforced material | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density (23°C) | 1.39 - 1.80 | g/cm³ | ISO 1183 |
| Molding Shrinkage - Flow (23°C) | 0.15 - 0.25 | % | ASTM D955 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 11100 - 28600 | MPa | ISO 527-2 |
| Tensile Strength | | | |
| Fracture, 23°C | 119 - 210 | MPa | ASTM D638 |
| Fracture, 23°C | 113 - 204 | MPa | ISO 527-2 |
| Tensile Elongation | | | |
| Fracture, 23°C | 0.74 - 2.0 | % | ASTM D638 |
| Fracture, 23°C | 0.56 - 0.81 | % | ISO 527-2 |
| Flexural Modulus | | | |
| 23°C | 18700 - 23500 | MPa | ASTM D790 |
| 23°C | 11000 - 30300 | MPa | ISO 178 |
| Flexural Stress (23°C) | 46.0 - 312 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | | | |
| 23°C | 37 - 64 | J/m | ASTM D256 |
| 23°C | 3.2 - 6.1 | kJ/m² | ISO 180 |
| Unnotched Izod Impact Strength (23°C) | 13 - 25 | kJ/m² | ISO 180 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 248 - 268 | °C | ISO 75-2/A |
| Linear thermal expansion coefficient | | | ISO 11359-2 |
| Flow | 1.0E-6 - 3.6E-5 | cm/cm/°C | ISO 11359-2 |
| Lateral | 4.6E-6 - 5.3E-5 | cm/cm/°C | ISO 11359-2 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 135 | °C | |
| Rear Temperature | 309 - 310 | °C | |
| Middle Temperature | 326 - 327 | °C | |
| Front Temperature | 337 - 338 | °C | |
| Processing (Melt) Temp | 318 | °C | |

| | | |
|---|---|---|
| Mold Temperature | 150 - 152 | °C |

Injection instructions

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## Recommended distributors for this material

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