

FZ-1130-D5

- **Product Summary:** FZ-1130-D5 is a glass fiber 30% reinforced branched PPS compound with reduced flash and improved flexibility compared to conventional grades of PPS.
- **Color:** Black and Natural (Brown)

Engineering Properties of FZ-1130-D5

| Properties | Test Method | Unit | FZ-1130-D5 |
|---|-------------|-----------------------|--------------------|
| General Information | | | GF30% Low flash |
| Physical | | | |
| Density | ISO 1183 | g/cm ³ | 1.59 |
| Water absorption, 23°C /24hrs. | ISO 62 | % | 0.02 |
| Mold shrinkage ^a | ISO 294-4 | % | 0.3/0.8 |
| Mechanical | | | |
| Tensile strength | ISO 527-1,2 | MPa | 180 |
| Tensile modulus | ISO 527-1,2 | GPa | 13.5 |
| Tensile strain at break | ISO 527-1,2 | % | 1.7 |
| Flexural strength | ISO 178 | MPa | 265 |
| Flexural modulus | ISO 178 | GPa | 12.0 |
| Flexural strain at break | ISO 178 | % | 2.3 |
| Charpy impact strength, notched | ISO 179/1eA | kJ/m ² | 9 |
| unnotched | ISO 179/1eU | kJ/m ² | 40 |
| Co-eff. of friction ^b , static/dynamic | - | - | 0.35/0.35 |
| Thermal | | | |
| Heat deflection temperature, 1.80MPa | ISO 75-1,2 | °C | 265 |
| Co-eff. of linear thermal expansion ^a , -50~50 °C | ISO 11359-2 | x 10 ⁻⁵ /K | 1.5/4.5 |
| Co-eff. of linear thermal expansion ^a , 100~200 °C | ISO 11359-2 | x 10 ⁻⁵ /K | 1.5/12.5 |
| Flammability ^c /thickness (mm) | UL-94 | - | V-0/0.75 |
| Electrical | | | |
| Dielectric strength, t=1.0mm | IEC 60243-1 | kV/mm | 25 |
| Dielectric constant, 1MHz | IEC 60250 | - | 4 |
| Dissipation factor, 1MHz | IEC 60250 | - | 0.004 |
| Comparative Tracking Index (CTI) | IEC 60112 | V | 175 |
| Volume resistivity | IEC 60093 | Ω·cm | 10 ¹⁶ |
| Molding Condition | | | |
| Cylinder temperature | - | °C | 300-340 |
| Mold temperature | - | °C | 130-150 |

a: Flow direction/Transverse direction

b: P=150kPa, V=0.3m/s, PPS vs. carbon steel

c: UL file No. E53829