

Polybest 6 PD GF50

PA6-GF50

Polyma Kunststoff GmbH & Co.KG

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------------|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 13500 | MPa | ISO 527 |
| Yield stress | 220 | MPa | ISO 527 |
| Yield strain | 2 | % | ISO 527 |
| Stress at break | 220 | MPa | ISO 527 |
| Strain at break | 2 | % | ISO 527 |
| Izod impact strength, +23°C | 115 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 13 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 222 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 215 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 220 | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.6 | mm | - |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| Glow Wire Flammability Index (GWFI) | 650 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 2 | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Comparative tracking index | 500 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Humidity absorption | 0.8 | % | Sim. to ISO 62 |
| Density | 1570 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 90 - 100 | °C | - |
| Pre-drying - Time | 3 | h | - |
| Melt temperature | 240 - 270 | °C | - |
| Mold temperature | 80 - 90 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Delivery form

Natural Color