

# FS4100PA

Advanced PA11 Material offering excellent impact resistance

## Key Features:

- > Excellent toughness and impact resistance
- > Good heat and chemical resistance
- > Excellent biocompatibility
- > Low water absorption, low temperature resistance

## [ Technical Data ]

### General Properties

**Bulk Density** 0.49 g/cm<sup>3</sup>

**Part Density** 1.03 g/cm<sup>3</sup>

**Color** White

### Thermal Properties

**Melting Point (10°C/min)** ISO 11357-1:2020 203 °C

**Heat Deflection Temp(HDT) @1.8 MPa** ISO 78-1:2020 49 °C

**Heat Deflection Temp(HDT) @0.45 MPa** ISO 78-1:2020 150 °C

### Mechanical Properties

**Tensile Strength** ISO 527-1:2019 49 MPa

**Tensile Modulus** ISO 527-1:2019 1542 MPa

**Elongation at Break** ISO 527-1:2018 58%

**Flexural Strength** ISO 178:2019 60 MPa

**Flexural Modulus** ISO 178:2019 1463 MPa

**Izod Impact Strength (notched)** ISO 180:2019 25 KJ/m<sup>2</sup>

**Izod Impact Strength (unnotched)** ISO 180:2019 No break

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## Example Applications:

- > Perfect for functional end-use parts requiring strength, flexibility and durability
- > Medical orthopedic, automotive interior
- > Industrial applications such as injection molding



Scoliosis Orthosis  
 System: HT403P  
 Partner: Huaxiang Group

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