

OLA 5100 PEEK

GET IN TOUCH CH +86 17169960305 OR AT SALES@OLA3DP.COM WWW.OLA3DP.COM

OLA Product Name: OLA 5100 PEEK

Color: Light Yellow

Process: SLS

MATERIAL SUMMARY

Tolerance: ±300µm or ±0.3%

Lead Time: 8 days

Maximum Printing Size: 180mm x 180mm x 200mm

Notes:

 O/Δ

EVALUATION

- Advantages
 - 1) High resistance to chemicals and oils.
 - 2 Excellent thermal stability with HDT up to 280°C.
 - 3 Biocompatible and suitable for sterilization.
- Disadvantages
 - 1 High material cost.

KEY FEATURES

PEEK 3D printing material is highly sought after in the medical industry due to its excellent biocompatibility and ability to be sterilized, making it ideal for custom medical implants. Additionally, its outstanding wear resistance and high-temperature stability make it a preferred material for producing aerospace parts and automotive components that require superior durability and thermal performance.

APPLICATION SCENARIOS

- Aerospace and automotive components
- Medical implants (customized, biocompatible)
- High-wear and high-temperatureresistant parts

MATERIAL PROPERTIES

Excellent chemical, oil, and heat resistance

High heat deflection temperature (HDT): ISO 75-1-2020: 280°C (0.45 MPa), 155°C (1.82 MPa)

Melting Point: 343°C

Tensile Modulus (ISO 527-1-2019): 3.5 GPa

Tensile Strength (ISO 527-1-2019): 78 MPa

Elongation at Break (ISO 527-2018): 2.5%

POST-PROCESSING OPTIONS

None 🔵