



Polymer Material for SLS 3D Printing

IGP1200S

Advanced SLS Nylon for
Thin Walls, Assemblies &
Large Parts

Zorix IGP1200S: Industrial-Grade PA12
Engineered for industrial SLS 3D printing,
delivering high-performance and stable
results.

- **Key Features:** Tough, dimensionally stable, heat & corrosion-resistant.
- **Surface Finish:** Smooth, paint-ready, biocompatible.
- **Applications:** Prototypes, tooling, & low-volume production.



Specifically optimized for Zorix SLS systems

TDS

IGP1200S
PA12 Nylon

Version
V1.0

Release Date
2026.07.11

www.zorixam.com
ZORIX TECHNOLOGY PTE. LTD.

● Technical Specifications

General Properties	Test Method	Typical Value
Bulk Density / g/cm ³	GB/T 1033.1-2008	0.57
Part Density / g/cm ³	GB/T 1033.1-2008	1.05
Color		Black

Thermal Properties	Test Method	Typical Value
Melting Point (10°C /min)	ISO 11357.1:1997	180
HDT @ 1.82MPa / °C	ISO 75-2-2013	46
HDT @ 0.45MPa / °C	ISO 75-2-2013	138

Mechanical Properties	Test Method	Typical Value
Tensile Strength / MPa	ISO 527-2:2012	45
Tensile Modulus / MPa	ISO 527-2:2012	1390
Elongation at Break / %	ISO 527-2:2012	32
Flexural Strength / MPa	ISO 178:2019	46
Flexural Modulus / MPa	ISO 178:2019	1160
Izod Impact Strength-Notched/ kJ/m ²	ISO 180:2023	4
Izod Impact Strength-Unnotched / kJ/m ²	ISO 180:2023	42

1. The material property data presented in this table are derived from test specimens under laboratory conditions. Actual part performance may vary depending on environmental factors such as temperature and humidity.
2. The parts were printed using a Zorix Mega I system with IGP1200S PA12 powder. Material properties may vary depending on part design and manufacturing processes. It is the responsibility of the manufacturer to evaluate and verify the suitability of the printed parts for their intended application.
3. Dimensional Accuracy: **±200 µm** for dimensions **< 100 mm**, or **±0.2%** for dimensions **≥ 100 mm**.

● Storage & Handling



Storage Conditions

- Store in a cool, dry place. Avoid direct sunlight.
- Relative Humidity: < 50%
- Recommended Ambient Temperature: 15–25°C (59–77°F)



Handling Precautions

- Wear a dust mask and gloves.
- Ensure adequate ventilation.
- Reseal tightly after use.



Packaging Specifications

- Format: Vacuum bag inside a cardboard carton
- Net Weight: 10 kg / carton
- Custom packaging sizes are available upon request.