

Product technical instructions

Product brand: Piocreat_PP-GP2200

Material No.: D3305110004

Modified PP

- Mineral powder reinforced polypropylene pellets for 3D printing
- High toughness material with good interlayer bonding force
- Suitable for industrial model design, mechanical parts processing and art design industries

State

- Commercialize

Product features

Project	Test standards	PP
Physical properties		
Densities(g/cm ³)	ISO1183	1.06
Melt flow rate (230°C/2.16 kg)(g/10min)	ISO1133	10
Mechanical behavior		
Tensile Strength(MPa)	ISO527	17
Tensile modulus(MPa)	ISO527	1200
Bending strength(MPa)	ISO178	22
Flexural modulus(MPa)	ISO178	1200
Tensile strength (X-Y)(MPa)	ISO527	15
Tensile modulus (X-Y)(MPa)	ISO527	1000
Impact properties		
Izod notched impact strength (23°C)(KJ/m ²)	ISO180/1A	40

*The above typical data are for reference only and cannot be used as product standards.

Print conditions

	Preferred values	Range
Nozzle temperature	220°C	190-240°C
Base plate temperature	30°C	20-110°C
Speed	40mm/s	20-100mm/s
layer thickness	0.8mm	0.4-1.6 mm

The above typical values are for reference only. In the actual processing process, the above process can be appropriately adjusted according to the specific printing equipment, product shape and size.

It is recommended to use a printer with a constant temperature chamber and a PP orifice plate as the bottom plate to achieve better printing results.

Store

Before use, check whether the packaging is damaged during transportation. Materials should be stored in a cool, dry place, and the temperature should be adjusted to room temperature before opening to prevent moisture condensation. Once use is completed, remaining materials should be sealed and stored. It is necessary to install a cover on the feed port of the processing equipment.

For information on safety and environmental protection, please refer to the safety data sheets of our products or contact our customer service center.

Statement

The indicators and data in this information are based on our current technical knowledge and practical experience and are for reference only. Specific guarantee indicators shall be subject to the provisions of the quality guarantee or supply contract. Users are responsible for testing the products purchased from our company to verify whether they are suitable for their intended processes and purposes and achieve the intended purpose. The further application and processing of our products are beyond our control. Therefore, our liability for the products we provide is limited to the parts delivered by us and used by you, and we are not responsible for indirect losses caused by the use of our company's products as raw materials for production. The technical support and customer service center of our company's marketing department is willing to provide you with product consultation and application technical services. Welcome to contact us by email or phone.

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