

PLA Technical & Safety Data Sheet

Product Name: IIID MAX PLA 3D Printing Filament

Date of issue: 5/14/2020

1. Identification of the substance/preparation and of the company

1.1 Trade name: IIID MAX PLA 3D Printing Filament

1.2 Use of the product: Biodegradable resin for 3D printing

1.3 Description: PLA filament is a thermoplastic polymer made strictly from renewable resources. Poly Lactic Acid (PLA), is generated from a biodegradable material like cornstarch, potato starch, sugarcane, and tapioca roots, and has a smooth, shiny appearance. PLA filament is a popular 3D printer filament known for its ease of use, natural ability to break down, and superior print detail capabilities.

1.4 Manufacturer: IIID MAX

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Medley, FL 33178

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2. Hazards identification

2.1 Classification: Not dangerous according to Directive 67/548/EEC.

2.2 Special advice on hazards: Burns might occur in case of contact with the hot polymer. Hazardous vapors in case of burning.

3. Composition / information on ingredients

3.1 Chemical characteristics: Biodegradable polymer-blend based on polylactic acid.

3.2 CAS Number: PLA: 9051-89-2.

3.3 Additional information: It contains no harmful ingredients.

4. First-aid measures

4.1 On skin contact: In case of contact with the hot polymer, apply cold water immediately. Ensure that you have medical aid substances in case you have to remove adhering material and for taking care of burns.

4.2 After inhalation: Remove yourself out of the inhalation zone, and find fresh air. In case of discomfort, make sure to contact a doctor.

4.3 On ingestion: Make sure to rinse your mouth with water. No effects are known. Contact a doctor in case of discomfort.

4.4 On eyes contact: Rinse open eyes thoroughly with water.

5. Fire-fighting measures

5.1 Suitable fire extinguishing: Carbon dioxide, water, and dry chemical extinguisher.

5.2 Special exposure hazards: During incomplete combustion release of carbon monoxide, carbon dioxide, and hydrocarbons.

5.3 Special protective equipment: Self-contained breathing apparatus, masks, and gloves

5.4 Remark: The accumulations of dust can be inflammable.

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6. Environmental Information

6.1 Biological degradation: PLA is biodegradable.

6.2 Ecotoxicological effects: No negative ecological effects are known at the present state of knowledge.

7. Storage

7.1 Storage: Protect against moisture. Store cool and keep packaging closed when not in use. Avoid sources of ignition.

8. Exposure controls & personal protection

8.1 Technical safety measures: With suitable ventilation, the threshold limits assumably will not be reached. Make sure to use grounding cables to avoid static.

8.2 Work hygiene: Avoid eating or drinking during working closely with your printers. Avoid contact with hot material with your skin. Avoid inhaling dust and vapors.

9. Physical and chemical properties

9.1 Filament Diameter: 1.75mm

9.2 Print Speed: 20~100 mm/s

9.3 Print Temp: 190~230°C

9.4 Heated Bed Temp: 0°C~70°C

9.5 Tolerance: ± 0.03mm

9.6 Density: 1.24g / cm³

9.7 Bed Material: Acrylic / Glass

9.8 Recommended Storage Temperature : -20 to 50 °C / -4 to 122 °F

9.9 Length : 330m / 360 yards

9.10 Empty Spool: 0.2 kg

9.11 Full Spool: 1.2 kg

10. More Information

10.1 This SDS (safety data sheet) describes our product in terms of technical and safety requirements.

10.2 Data shown in this sheet is not applicable as a warranty of product properties.

10.3 It is the responsibility of the customer to observe the existing legal regulations for the use of this product.