



**Manufacturers of quality filament for 3D printers**

## **D & R 3D Filament Ltd**

### **PLA Material Safety Data Sheet**

#### **Identification**

Chemical Name: Polylactic acid  
Common Name: Polylactic acid, PLA

#### **Components**

<b>Chemical Name</b>	<b>Weight</b>	<b>OSHA Exposure Limits</b>	<b>ACGIH Exposure Limits</b>
Natureworks Inego 4043D	>95%	None	None
Impact Modyfier	>3%	None	None
Pigment – Inego 4043D	>2%	None	None

#### **Physical Properties**

Solubility in water: React moderate with water to become soluble. Will absorb water  
Appearance: Solid filament  
Density: 1.24g/cc  
Melt temperature: 175~220°C

#### **Hazardous Reactivity**

Instability: None.  
Incompatibility: Stable.  
Decomposition: Slow reaction in the presence of water.  
Polymerization: Will not occur, already a polymer.  
Combustion: Carbon monoxide and / or carbon dioxide may occur during the combustion of this product.

#### **Health Hazard Data**

Health Hazards: May cause mild skin and eye irritation if reacted with water.  
Medical Conditions Aggravated by exposure: None expected based on available information.

#### **Precautions for Safe Handling & Use**

Avoid contact with eyes, skin, and clothing. Avoid breathing dust .Wash thoroughly after handling.  
Hot and/or melted polymer can severely burn the skin. Handle with care.



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## **Emergency & First Aid**

Skin Contact: Solid or dust may cause irritation or corneal injury due to mechanical action

Eyes Contact: Essentially non-irritating to skin, mechanical injury only

Inhalation: No harmful effects expected. Consult a physician.

Swallowing: No harmful effects expected. Consult a physician.

## **Special Protection Information**

General Control Measures and procedures: None for normal use.

Personal Protective Equipment: Rubber gloves, safety glasses, Respirator.

## **Disposal Information**

Collect for disposal. Use appropriate personal protective equipment during clean-up.

Waste disposal: Bury in a landfill in compliance with all federal, state and local regulations.

Material is non-hazardous and biodegradable.

## **Recommended Storage Conditions**

Precautions should be taken in handling and storage: Avoid contacting with atmospheric moisture.

Store materials at <60C.with a desiccant in original containers to maintain product quality. Keep the container closed until it is ready for use. When not in use keep in product packaging with desiccant.

## **Transport Information**

Shipping Containers: Samples bottles; Moisture proof laminated pouches.

Proper Shipping name: Not regulated as a hazardous by DOT OR IMO.

**\*\*The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made.**

Consult the Company for Further Information.

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.

**[www.drreelings3dfilament.com](http://www.drreelings3dfilament.com)**

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