

# MATERIAL SAFETY DATA SHEET (MSDS)

**Report No.:** BCTC2102773773-3R

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**Applicant:** Shenzhen Creality 3D Technology Co., Ltd.

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**Product Name:** PLA consumable material

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**Product Type:** PLA

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**Prepared Date:** 2021-02-04

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**Issued Date:** 2021-02-21

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**Prepared By:** Liseo

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**Approved By:** Saher Chen

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Shenzhen BCTC Testing Co., Ltd.



**1 - Identification of the substance /preparation and of the company/undertaking****Product identifier**

Product name : PLA consumable material  
Model number : HP-PLA, CR-PLA, Ender-PLA, HC-PLA, PLA, PDS  
Country of origin : /  
Export country : /  
CAS number : Refer to section 3  
EINECS number : Refer to section 3  
Molecular formula : Refer to section 3

**Relevant identified uses of the substance or mixture and uses advised against**

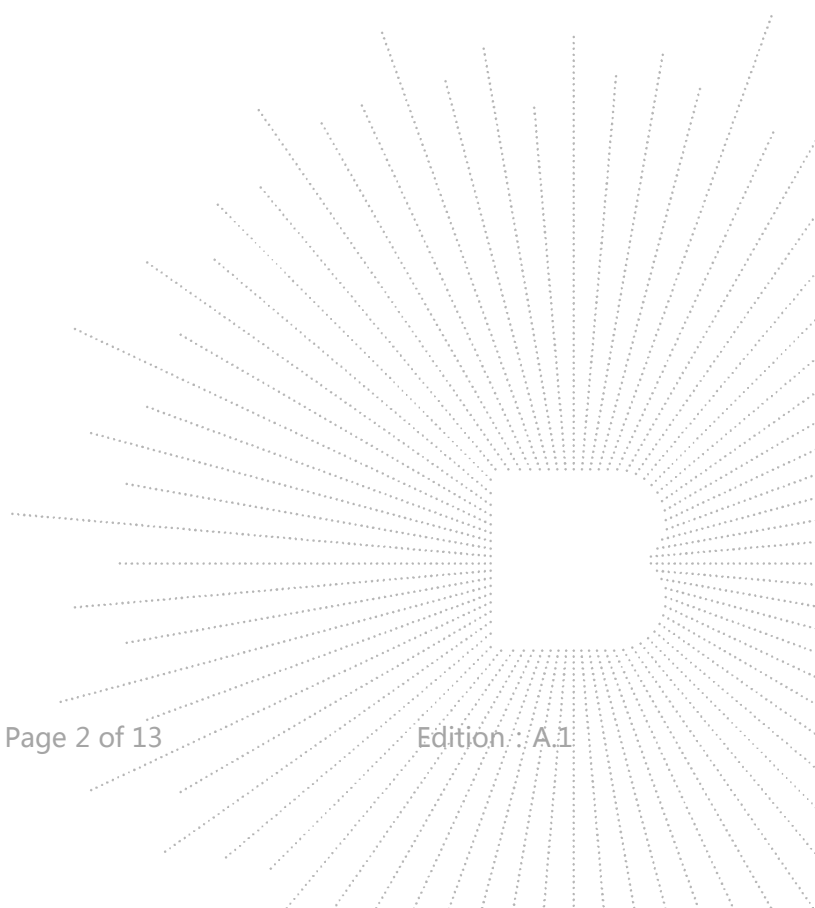
Relevant identified uses : No information available.  
Uses advised against : No information available.

**Details of the supplier of the safety data sheet**

Manufacture name : Shenzhen Creality 3D Technology Co., Ltd.  
Address : 18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen,  
China  
Telephone : /  
E-mail : /

**Emergency telephone number**

Emergency phone : /



**2 - Hazards Identification****Hazards Classification**

In accordance with Regulation (EC) No.1272/2008(CLP), the sample is divided into the following hazard category.

- Physical hazard** : Not classified as a physical hazard class.  
**Health hazard** : Not classified as a health hazard class.  
**Environment hazard** : Not classified as a environment hazard class.

**Label elements**

The product does not need to be labelled in accordance with Regulation (EC) No.1272/2008(CLP) or respective national laws.

**Other hazards**

No data available.

- Invasion route** : Skin touch, Eyes touch, Inhalation, Ingestion  
**Health hazards** : No know significant effects or critical hazard to health.  
**Environment hazards** : No know significant effects or critical hazard to environment.  
**Burn & burst danger** : The sample is not flammable.

**3 - Composition / Information on Ingredients**

| Substance/preparation: preparation |                      |                       |            |               |
|------------------------------------|----------------------|-----------------------|------------|---------------|
| Component/<br>Substance            | Molecular<br>Formula | Percent of<br>Content | CAS Number | EINECS Number |
| Poly lactide resin                 | /                    | 98%                   | 9051-89-2  | 618-575-7     |
| Calcium carbonate                  | CaCO <sub>3</sub>    | 2%                    | 471-34-1   | 207-439-9     |

#### 4 - First Aid Measures

|                                                                                   |   |                                                                                                                                           |
|-----------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>After skin contact</b>                                                         | : | In case of irritation or sensitisation, wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. |
| <b>After eye contact</b>                                                          | : | IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.                    |
| <b>After inhalation</b>                                                           | : | Supply with fresh air. Call a POISON CENTER/doctor, if you feel unwell. If swallowed, rinse mouth. Never give anything by mouth to an     |
| <b>After ingestion</b>                                                            | : | unconscious person. If large quantities of this material are swallowed, immediately call a POISON CENTER or doctor/physician.             |
| <b>Most important symptoms and effects, both acute and delayed</b>                | : | No known symptoms or effects.                                                                                                             |
| <b>Indication of any immediate medical attention and special treatment needed</b> | : | No data available.                                                                                                                        |

#### 5 - Fire Fighting Measures

|                                          |   |                                                                                                                                                                                                                                                      |
|------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Fire Extinguishing Media</b> | : | Foam, carbon dioxide, dry chemical extinguishers.                                                                                                                                                                                                    |
| <b>Special Remarks On Fire Hazards</b>   | : | The sample is not flammable. The smoke of combustion may cause apnea, irritation.                                                                                                                                                                    |
| <b>Special Fire Fighting Procedures</b>  | : | As soon as possible, remove the goods from fire to open place. For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, Standing on the windward, Use water spray to cool fire-exposed containers. |
| <b>Combustion Products</b>               | : | Carbon monoxide, carbon dioxide, nitrogen oxides and other unidentified product.                                                                                                                                                                     |
| <b>Protective Equipment</b>              | : | The staff must equipped with filter mask(full mask) or isolated breathing apparatus. The staff must wear the clothes which can defend the fire.                                                                                                      |

## 6 - Accidental Release Measures

|                                                                            |                                                                                                                                                                                           |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | : Use personal protective equipment. Avoid breathing dust, smoke, vapours, mist or gas. Ensure adequate ventilation.<br>Remove all sources of ignition. Evacuate personnel to safe areas. |
| <b>Measures for environment protection</b>                                 | : Collect leaking, avoid environmental pollution, and prevent from spreading or entering into sewers, surface water and groundwater.                                                      |
| <b>Methods and materials for containment and cleaning up</b>               | : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.                                                              |
| <b>Additional information</b>                                              | : Prevent birds or fish feeding by the drainage system, must be completely recycled.                                                                                                      |

## 7 - Handling and Storage

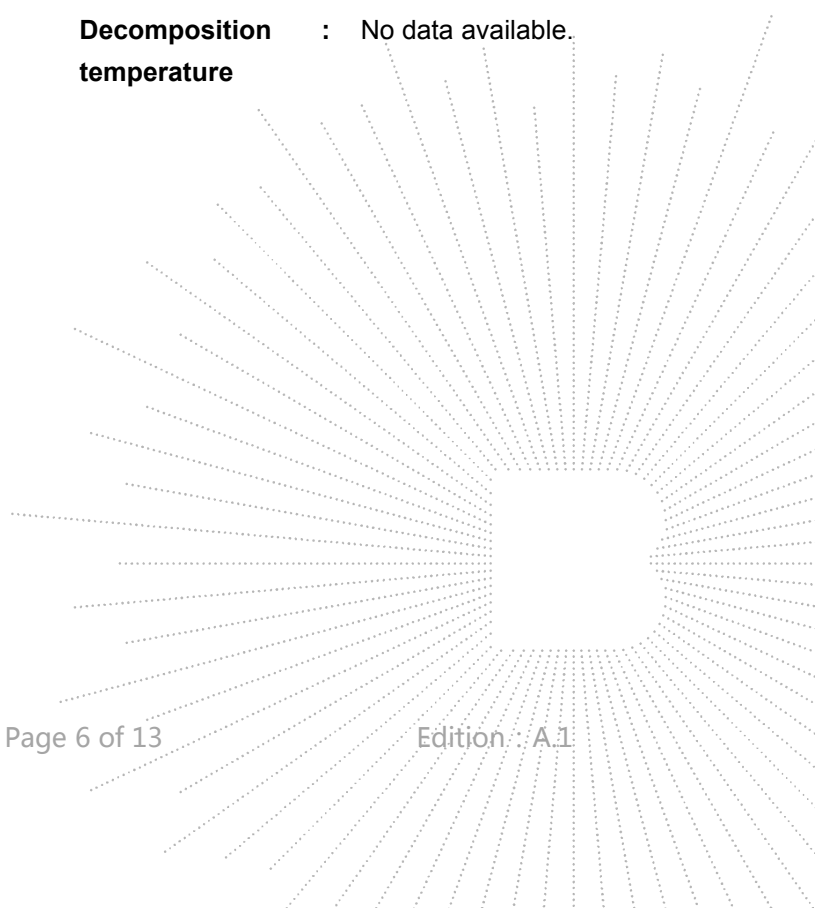
|                                                                     |                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | : Avoid formation of dust and aerosols. Avoid contact with skin and eyes.<br>Operating personnel must train specially and follow close to the line of operating instruction.<br>Avoid accumulate dust.<br>Wear suitable protective clothing, gloves and eye/face protection.                                         |
| <b>Conditions for safe storage, including any incompatibilities</b> | : Packing require seal.<br>Keep container tightly closed in a cool, well-ventilated place.<br>Keep away from sources of ignition - No smoking.<br>Keep separate with the oxidizing agent.<br>Equip with relevant type and quantities of the extinguishment instruments.<br>Keep the sample as a easy identification. |

## 8 - Exposure Controls / Personal Protection

|                                         |                                                                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum admissible concentration</b> | : No standard yet                                                                                                                                                                |
| <b>Monitoring Method</b>                | : No data available.                                                                                                                                                             |
| <b>Engineering Control</b>              | : Equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits |
| <b>Respiratory Protection</b>           | : Wear suitable mask. If the dust density exceed in the air, must wear air-purifying respirators.                                                                                |
| <b>Eye Protection</b>                   | : Wear suitable chemical safety goggles.                                                                                                                                         |
| <b>Body Protection</b>                  | : Wear suitable safety cloth.                                                                                                                                                    |
| <b>Hands Protection</b>                 | : Wear suitable protective gloves.                                                                                                                                               |
| <b>Other Protection</b>                 | : No smoking, dining and drinking water in the workplace. Keep good habit of hygiene. Shower and change clothes after work.                                                      |

## 9 - Physical and Chemical Properties

|                               |                      |                                  |                      |
|-------------------------------|----------------------|----------------------------------|----------------------|
| <b>Appearance</b>             | : Solid              | <b>Odor</b>                      | : Odorless           |
| <b>Color</b>                  | : White              | <b>pH</b>                        | : No data available. |
| <b>Melting Point</b>          | : No data available. | <b>Density</b>                   | : No data available. |
| <b>Boiling point</b>          | : No data available. | <b>Flashing Point</b>            | : No data available. |
| <b>Explosion Upper Limits</b> | : No data available. | <b>Explosion Lower Limits</b>    | : No data available. |
| <b>Ignition temperature</b>   | : No data available. | <b>Decomposition temperature</b> | : No data available. |
| <b>Solubility</b>             | : Insoluble in water |                                  |                      |



**10 - Stability and Reactivity**

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| <b>Stability</b>                        | : Stable under normal temperature and pressure          |
| <b>Conditions To Avoid</b>              | : Avoid fire, elevated temperatures, direct sunlight.   |
| <b>Possibility of hazard reactions</b>  | : No data available.                                    |
| <b>Incompatible materials</b>           | : Incompatible with acids, oxidizing agents, basis etc. |
| <b>Hazardous Decomposition Products</b> | : No data available.                                    |

**11 - Toxicological Information**

|                                                         |                                                                                                                                           |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Toxicity</b>                                   | : No data available.                                                                                                                      |
| <b>Skin corrosion/irritation</b>                        | : No data available.                                                                                                                      |
| <b>Serious eye damage/eye irritation</b>                | : No data available.                                                                                                                      |
| <b>Respiratory or skin Sensitization</b>                | : No data available.                                                                                                                      |
| <b>Germ cell mutagenicity</b>                           | : No data available.                                                                                                                      |
| <b>Carcinogenicity</b>                                  | : IARC: No ingredients at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>Reproductive toxicity</b>                            | : No data available.                                                                                                                      |
| <b>Specific target organ toxicity-single exposure</b>   | : No data available.                                                                                                                      |
| <b>Specific target organ toxicity-repeated exposure</b> | : No data available.                                                                                                                      |
| <b>Aspiration hazard</b>                                | : No data available.                                                                                                                      |
| <b>Potential invasion route</b>                         | : Skin contact : Dust may cause irritation.                                                                                               |
|                                                         | : Eye contact : Dust may cause irritation.                                                                                                |
|                                                         | : Inhalation : May cause respiratory tract irritation, coughing, etc.                                                                     |
|                                                         | : Ingestion : If swallows, may cause discomfort, and effect people's digestive system.                                                    |

## 12 - Ecological Information

|                                      |                                                                         |
|--------------------------------------|-------------------------------------------------------------------------|
| <b>Toxicity</b>                      | : No data available.                                                    |
| <b>Persistence and degradability</b> | : No data available.                                                    |
| <b>Bioaccumulative potential</b>     | : No data available.                                                    |
| <b>Mobility in soil</b>              | : No data available.                                                    |
| <b>Other adverse effects</b>         | : It might cause pollution when released large-scale to the air, water. |

## 13 - Disposal Considerations

|                               |                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nature of waste</b>        | : This product is not regarded as hazardous waste.                                                                                   |
| <b>Waste disposal methods</b> | : Offer surplus and non-recyclable solutions to a licensed disposal company. Refer to National or Local regulations before handling. |
| <b>Attention abandoned</b>    | : Avoid abandon to the water.                                                                                                        |

**14 - Transport Information****Transport Attentions:**

The products restrict the use of own steel tanker shipment when railway transport, submit to relevant departments for approval. The transport vehicles should be equipped with the appropriate variety and quantity of fire control equipment and emergency equipment for leakage. In summer, best transport in morning or evening. Transport tank should have grounding chain, the inner of tank should have baffle hole plate to reduce static electricity. Ban mixed operation with antioxidants, acid, alkali metal and amine. Prevent insolate, rain and heat in transit. Keep away from fire, heat and high temperature when stopover. Exhaust pipes of transport vehicle must be equipped with fire retardant equipment. Ban load and unload with mechanical equipments and tools that easy to produce the spark. According to prescribed routes when road transport. Do not stay in residential area and densely populated area. Ban humping when railway transport. Ban bulk transport use wooden boats, concrete boats.

Please refer to section 7-HANDING AND STORAGE also, and requirements of the IATA/ICAO/PG.

**Maritime transport IMDG**

IMDG Code : Not hazardous goods  
UN-Number : No data available.  
Packing group : No data available.  
Proper shipping name : No data available.

**DOT regulations**

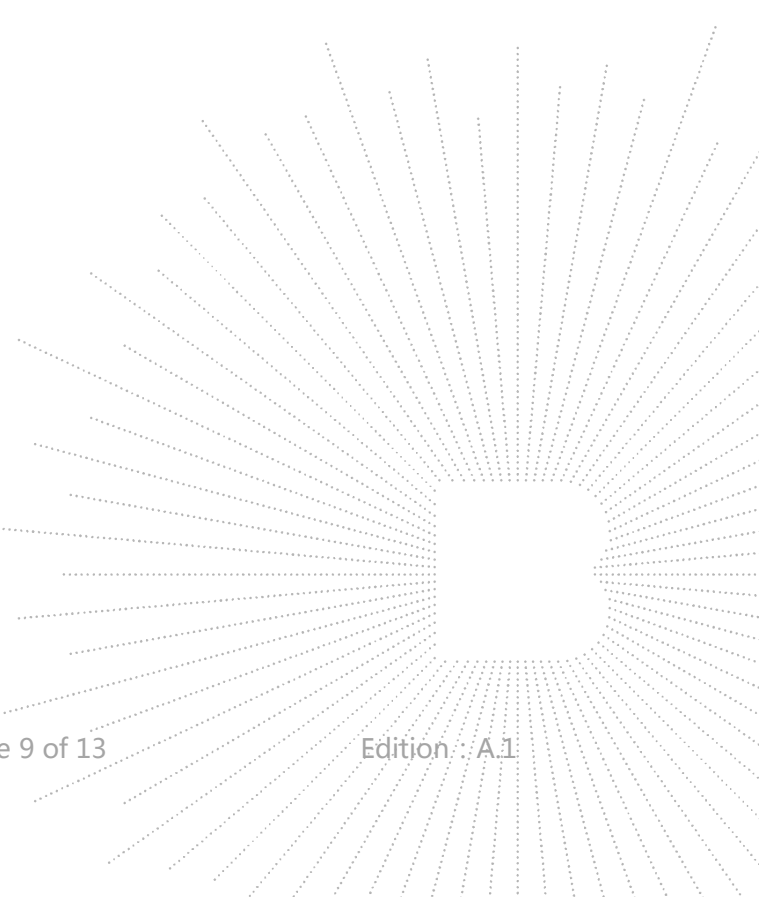
Hazard class : Not hazardous goods  
UN-Number : No data available.  
Packing group : No data available.  
Proper shipping name : No data available.

**Land transport ADR/RID(cross-border)**

Hazard class : Not hazardous goods  
UN-Number : No data available.  
Packing group : No data available.  
Proper shipping name : No data available.

**Air transport ICAO-TI and IATA-DGR**

ICAO-TI-II class : Not hazardous goods  
UN/ID Number : No data available.  
Packing group : No data available.  
Proper shipping name : No data available.



**15 - Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

German regulations concerning the classification of hazard for water(WGK) : Not listed

Substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) : Not listed

The conditions of restrictions according to Regulation (EC) No. 1907/2006 (REACH) Article 67 and Annex XVII for the manufacturing, placing on the market and use must be observed : Not listed

Regulation (EC) No. 1907/2006 (REACH) Annex XVII (requiring Authorisation for use) : Not listed

Regulation (EC) No. 1907/2006 (REACH)-Pre-registered substance. : Not listed

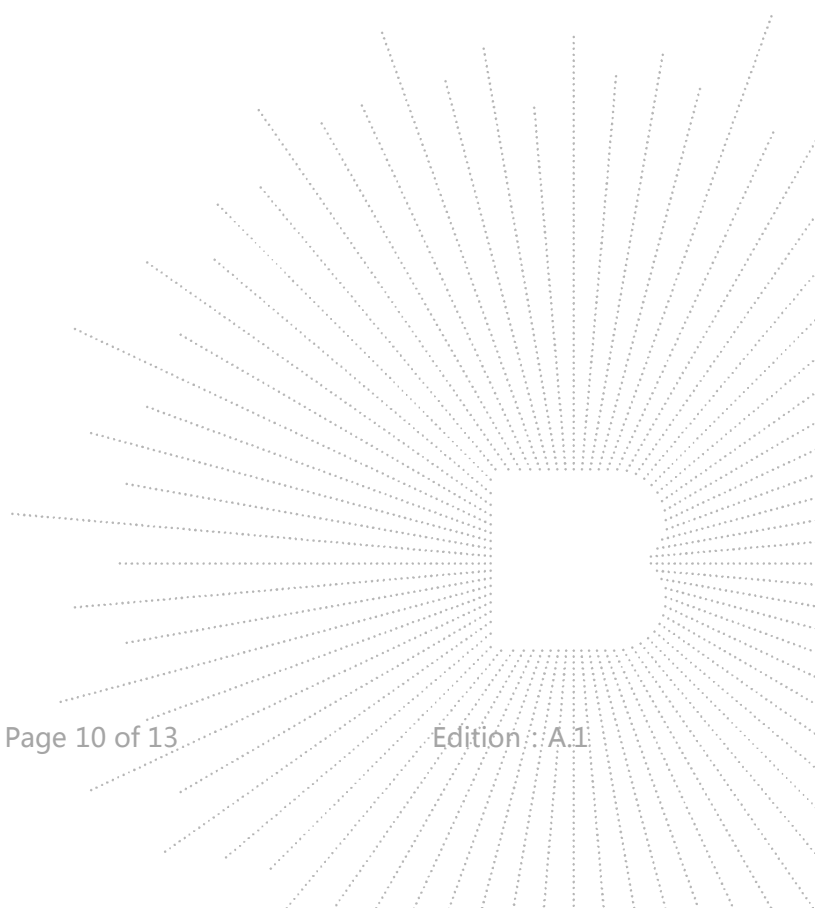
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer : Not listed

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I : Not listed

ELINECS(European List of Notified Chemical Substances) : Not listed

German regulations concerning the classification of hazard for water(WGK) : Not listed

**Chemical Safety Assessment** : No data available.



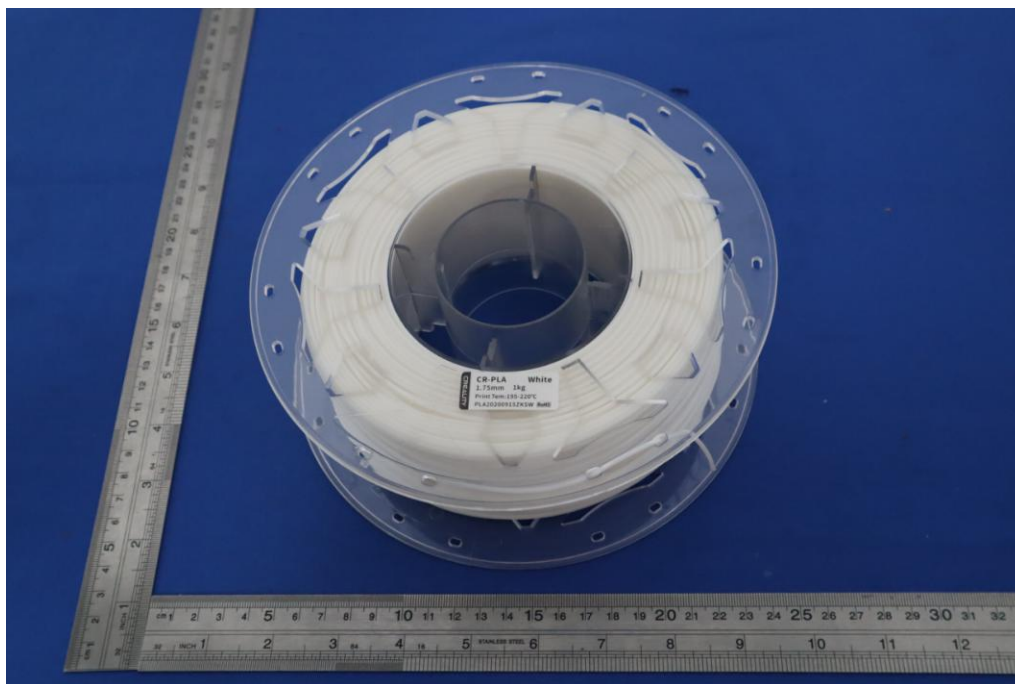
**16 - Other Information****Abbreviations and acronyms:**

|        |                                                                                       |
|--------|---------------------------------------------------------------------------------------|
| ADR    | : European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS    | : Chemical Abstracts Service                                                          |
| CLP    | : Classification Packaging and Labelling                                              |
| DOT    | : US Department of Transportation                                                     |
| EC     | : European Commission                                                                 |
| EINECS | : The European Inventory of Existing Commercial Chemical Substances                   |
| IARC   | : International Agency for Research on Cancer                                         |
| IATA   | : International Air Transport Association                                             |
| ICAO   | : International Civil Aviation Organization                                           |
| IMDG   | : International Maritime Dangerous Goods                                              |
| RID    | : Regulations Relating to International Carriage of Dangerous Goods by Rail           |
| UN     | : The United Nations                                                                  |

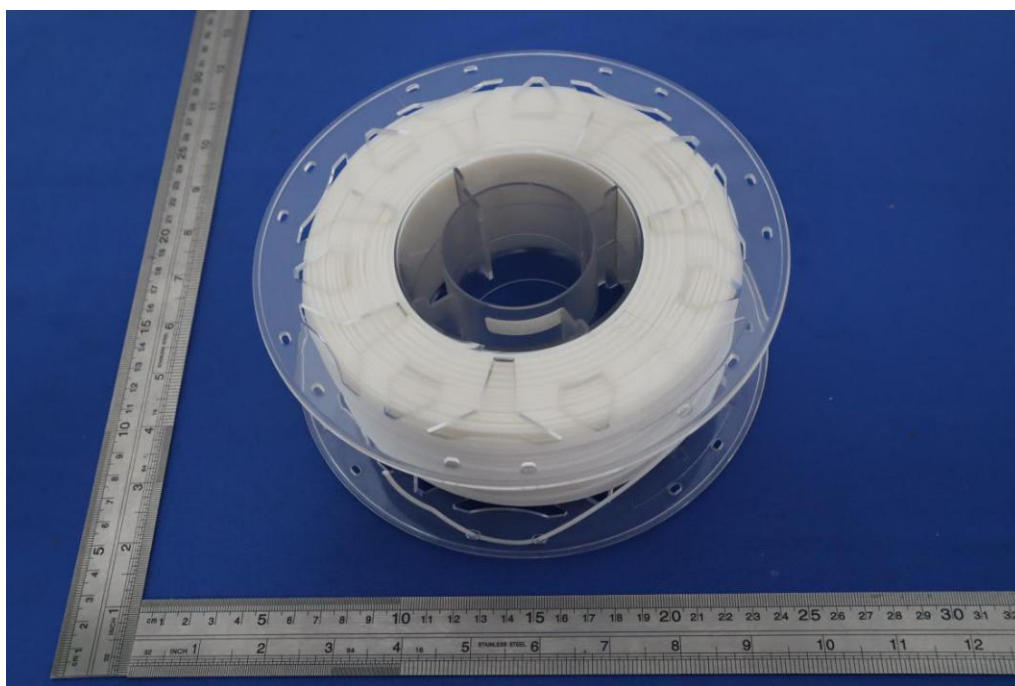
**Disclaimer:**

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**Photograph of Sample**



**Fig.1**



**Fig.2**

## STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without stamp of laboratory.
4. The test report is invalid without signature of person(s) testing and authorizing.
5. The test process and test result is only related to the Unit Under Test.
6. The quality system of our laboratory is in accordance with ISO/IEC17025.
7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL : 400-788-9558

P. C.: 518103

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