

# SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

- 1.1 Identification of the substance or preparation:** Colorfabb DPA-100 3D printing filament.  
All information in this SDS is applicable to the DPA-100 filament material, not the filament spool itself.
- 1.2 Use of the substance or preparation:** FDM 3D printing
- 1.3 Company/undertaking identification** Colorfabb B.V.  
5951 DK Belfeld, The Netherlands  
Tel.: +31 77 4664015  
Fax: +31 77 3971414  
E-mail: [sales@colorfabb.com](mailto:sales@colorfabb.com)
- 1.4 Emergency telephone:** Colorfabb B.V.; Tel.: 077 4664015 (only during office hours)  
  
EU National Helpdesks: [echa.europa.eu/support/helpdesks](https://echa.europa.eu/support/helpdesks)

## 2. HAZARDS IDENTIFICATION

- 2.1 Classification** The material is not hazardous according EC 1272/2008
- 2.2 Labeling**
- |                         |                |
|-------------------------|----------------|
| Hazard Statement        | Not applicable |
| Precautionary statement | Not applicable |
- 2.3 Other hazards** Danger of burns while handling the heated or molten product.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

- 3.1 Substances** Acrylate Terpolymer based polymer blend enhanced for 3D printing.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- General information** Contaminated clothing must be taken off immediately.
- After inhalation** After inhalation of decomposition products gases or dust, bring the affected person to a source of fresh air and keep calm. Contact a physician in case of discomfort.
- After eye contact** Vapor or heated product may cause eye irritation. In case of contact with eyes, rinse open eyes thoroughly with water. Remove contact lenses and continue flushing. If irritation develops, seek immediate medical attention.
- After skin contact** After contact with the molten product, cool skin area immediately with cool water. Do not remove the product from the affected skin areas without

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medical assistance. Cover with sterile cotton sheeting to protect against infection. Seek medical attention.

After ingestion Rinse mouth with water. Induce vomiting immediately and seek medical attention. If a person vomits when lying on his back, place him in the recovery position.

Note to the physician Treat symptomatically.

#### 4.2 Most important symptoms and effects, both acute and delayed

Dust Skin irritation, eye irritations and redness.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Decontamination, vital functions.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Water spray jet, foam, extinguishing powder, carbon dioxide.

### 5.2 Unsuitable media

Full water jet or a solid water stream. It might scatter and spread fire.

### 5.3 Special hazards arising from the mixture

Exposure to decomposition products may be a hazard to health. The smoke of a fire can, in addition to the originating material, also contain combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to carbon monoxide and carbon dioxide.

### 5.4 Advice to firefighters

Wear self-contained breathing apparatus and full protective clothing.

### 5.5 Additional information

Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust.

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapors/fumes released during thermal processing. Use personal protective equipment/clothing (see section 8). Avoid eye contact and dust formation

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and remove all sources of ignition. Sweep up to prevent slipping hazard.

## 6.2 Methods and material for containment and cleaning up

Sweep/shovel into suitable container for disposal. Avoid raising dust and ensure adequate ventilation. Clean contaminated surface thoroughly.

## 6.3 Environmental precautions

Prevent entry into drainage systems, or surface water. See section 13, disposal consideration.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handle in a well-ventilated area. Install local exhaust at 3D printer's area is recommended when many printers are operated at once. Avoid contact with heated or molten product. Use personal protective equipment (see section 8). Avoid dust formation and electrostatic charge. Keep away from fire ignition.

### 7.2 Conditions for safe storage, including any incompatibilities

Protect from water, moisture and direct sunlight. Store material in dry rooms and keep material in closed and air tight packaging/container with desiccant when not in use. Store at ambient temperatures. Avoid all sources of ignition.

### 7.3 Precautions

No special precautions required.

### 7.4 Specific use(s)

Primarily used for 3D printing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Occupational exposure limits

Given suitable ventilation it can be that the threshold limits will not be reached. Provide good ventilation to ensure that the workplace exposure limit is not exceeded. Use of respiratory protection may be necessary during maintenance activities.

### 8.2 Exposure controls

Thermal extrusion

Provide local exhaust ventilation to ensure that the workplace exposure limit is not exceeded. Use respiratory protection may be necessary during maintenance activities.

### 8.3 Personal protective equipment

**Eye protection**

Not required (for FDM printing)

**Hand protection**

Not required (for FDM printing)

**Skin protection**

Not required (for FDM printing)

**Respiratory protection**

Not required (for FDM printing)

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**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

**8.4 Environmental exposure controls** Prevent entry into drainage systems, or surface water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Fundamental physical and chemical properties

<b>Form</b>	Filament (solid)
<b>Color</b>	Natural
<b>Odor</b>	Weak, characteristic
<b>Melting index</b>	1 – 10 g/10 min (200 °C/10 kg)
<b>Ignition temperature</b>	> 450 °C
<b>Flash point/ flash point range</b>	No data available.
<b>Explosion limit</b>	No data available.
<b>Density</b>	No data available.
<b>Solubility in water</b>	Insoluble
<b>Solubility in 0,5 N NaOH</b>	50 g/l
<b>Decomposition temperature</b>	> 290 °C
<b>Specific gravity</b>	1,1 g/cc (20 °C)

## 10. STABILITY AND REACTIVITY

<b>10.1 Stability</b>	Product is stable at recommended storage conditions.
<b>10.2 Chemical stability</b>	Avoid extreme heat and all sources of ignition. Avoid heating for a long time above processing temperatures.
<b>10.3 Substances to avoid</b>	Alkaline, strong acids and oxidation substances.
<b>10.4 Hazardous reactions</b>	The product is chemically stable.
<b>10.5 Hazardous decomposition products</b>	Dangerous/toxic fumes and other gaseous products of degradation can be given off if the product is greatly overheated.

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The decomposition of product depends on temperature, air supply and the presence of other materials (carbon monoxide, hydrocarbon oxidation products, including organic acids aldehydes and alcohol). In case of fire may be liberated: Smoke, hydrogen cyanide, hydrocarbons, carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Toxicological effects

Acute toxicity (oral)	No data available.,
Acute toxicity (dermal)	No data available.
Acute toxicity (inhalative)	No data available.
Skin corrosion/irritation	Not expected to be irritating.
Serious eye damage/irritation	Not expected to be irritating.
Sensitization	Not expected to be a skin sensitizer.
Repeated dose toxicity	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Toxicity for reproduction	No data available.
General remarks	No harmful, toxic and sensitive effects have been reported to date. Information listed in this section is transferred from safety data from the ingredients of this product.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Eco-toxicity	No ecological toxicity data has been generated for this product. There are no test results available and information is based on similar products.
Ecological toxicity effects	Ecological toxicity effects: No negative ecological effects are known at the present state of knowledge.

### 12.2. Persistence and degradability

Biodegradation	The product is not readily biodegradable. The product is likely to persist in the environment.
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### 12.3. Bio accumulative potential

No data available, but the product is expected not to be readily bioavailable due to its consistency and insolubility in water

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## 12.4. Mobility in soil

The product is essentially insoluble in water. Avoid contamination of soil, surface and sewage system water.

## 13. DISPOSAL CONSIDERATIONS

**Product** Generation of waste should be minimized, check the possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with the local authority.

**Packaging** Dispose of in accordance with local regulations

## 14. TRANSPORT INFORMATION

**IATA (AIR)** This product is not classified as hazardous.

**IMDG (SEA)** This product is not classified as hazardous.

**UN, IMO, ADR/RID, ICAO Code (Road/Rail)** This product is not classified as hazardous.

**14.1. Transport in bulk according to Annex II of Marpol and the IBC Code** No data available.

## 15. REGULATORY INFORMATION

**EU/National regulations** This product does not require a hazard warning label in accordance with EC Directives.

## 16. OTHER INFORMATION

**Relevant H-phrase:** None

**Changes compared to previous version:** n.a.

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## Abbreviations

REACH; Registration, Evaluation, Authorisation and restriction of chemical substances  
EC: European Community  
STOT: Specific Target Organ Toxicity  
PBT: Persistent, Bioaccumulating, Toxic  
vPvB: very Persistent, very Bioaccumulating  
ADR; Accord européen relative au transport international des marchandises Dangereuses per Route  
ADN: Accord européen relative au transport international des marchandises Dangereuses per voies de Navigation intérieures  
RID: Regulations for the international Transport of dangerous goods by rail  
IMDG: International maritime dangerous goods code  
ICAO: International civil aviation organization

This safety datasheet complies with the requirements of EC 1907/2006 and regulation EC 2015/830. Label element according to regulation EC 1272/2008.

## Disclaimer

The information provided in the safety datasheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information only relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.