

# Material Safety Data Sheet

Safety Data Sheet according to Regulation (EC) N°1907/2006

Trade name: **3D Printer Filaments – 856**

Revision: 01/2021

## 1. Identification of the product and the company

Product: **3D PRINTER FILAMENTS – 856**  
Company: Filkemp<sup>®</sup> - Indústria de Filamentos, S.A.,  
R. Francisco Lyon de Castro, n.28  
2726-932 Mem Martins, PORTUGAL  
Tel.: 00 351 21 922 94 10  
Fax: 00 351 21 920 76 93

## 2. Hazards identification

Non-hazardous according to EC-Regulations

## 3. Composition/ information on ingredients

Polyamide, additives (wax and/or dyes) and spinfinish  
CAS Nr: 24 993-04-2

## 4. First-aid measures

**General:** If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

<b>On contact with eyes:</b>	Product is solid. Remove as any foreign object.
<b>On skin contact:</b>	Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from skin. Get medical attention, if necessary, for removal and treatment of the burns.
<b>If inhaled:</b>	In case of inhalation of gases released from molten filament, move person into fresh air.
<b>On ingestion:</b>	Product is solid. Not probable in this form. If ingestion occurs, seek for medical attention.
<b>Note to physician:</b>	Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media:** water, foam, carbon dioxide or dry powder.

Use self-containing breathing apparatus for fire fighting in closed rooms.

At temperatures of > 300°C can be emitted: carbon monoxide and traces of other toxic substances, due to decomposition and oxidation of the product.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Particular danger of slipping on spilled product.

**Environmental precautions:**

No special measures required.

**Methods and material for containment and cleaning up:**

Collect mechanically.

## 7. Handling and storage

Handling: when handling carton boxes or pallets observe ergonomic recommendations.

Storage: no special hazards, when storing carton boxes or pallets take measures against falling down.

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## 8. Exposure controls/ personal protection

### Personal protective equipment

Respiratory protection: Fine-dust mask, depending on application  
Hand protection: Protective gloves are recommended  
Eye protection: Safety glasses are recommended  
Hygiene measures: Wash hands before breaks and after work.

## 9. Physical and chemical properties

Appearance: Filament  
Glass transition temperature: 185 - 195 °C  
Flash point: > 400 °C  
Density: 1.12 – 1.15 g/cm<sup>3</sup> at 20 °C  
Water solubility: Insoluble

## 10. Stability and reactivity

Thermal decomposition: above 300 °C.

## 11. Toxicological information

Non-hazardous polymer. Special ingredients: the product may contain up to 0.3% finish. To date proper use of the monofilament has not been associated with any detrimental effect on health. Finish is applied as a processing aid and can generally be removed in an aqueous medium if so required.  
May cause mechanical irritation.

## 12. Ecological information

Toxicity: The product does not affect on environment negatively, non-toxic.  
Persistence and degradability: Product to be inert and non-degradable.

## 13. Disposal considerations

If recycling is not possible, the product must be taken to a waste disposal site or incinerated subject to local regulations.

## 14. Transport information

Road, marine or air transport: Non-hazardous material.

## 15. Regulatory information

Hazard symbols, R or S phrases: none.

## 16. Other information

This information is based on our present state of knowledge and does not guarantee specific properties of the products described or their suitability for a particular application.