

velleman®

Material Safety Data sheet

Velleman
(Brand)

3 mm (1/8") PLA FILAMENT (different colors)
(Product name)

PLA3x1 (x denotes color)
(Product identification)

manufactured / imported by:

VELLEMAN NV.
Legen Heirweg, 33
9890 Gavere
Belgium

Description:

Plastic reel with 1kg of 3mm (1/8") PLA- filament for use with the K8200 3D printer. The reel is vacuum packed in plastic foil together with a bag of desiccant and stored in a cardboard box.

Specifications of the filament are:

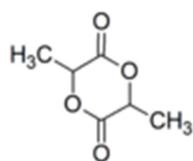
- Density: 1.25 g/cm³ (@ 21.5 °C) / 0.045 lb/in³ (@ 70.7 °F)
- Print temperature: 190-225 °C / 374-437 °F
- Impact strength: 5 kJ/m² / 2.38 ft-lb/in²

The filament is available in different colors

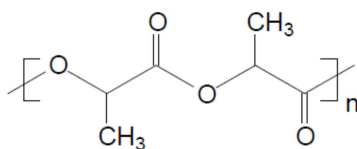
(x= N: natural, B: black, W: white, G: green, O: orange, P: pink, R: red, U: blue, Y: yellow)

Chemical Identification:

Name: 3, 6-dimethyl-1, 4-dione polymer
Family: Polyester
Common names: Polylactacide, polylactic acid, PLA
Formula: (C₃H₄O₂)_n
Structure:



Lactide



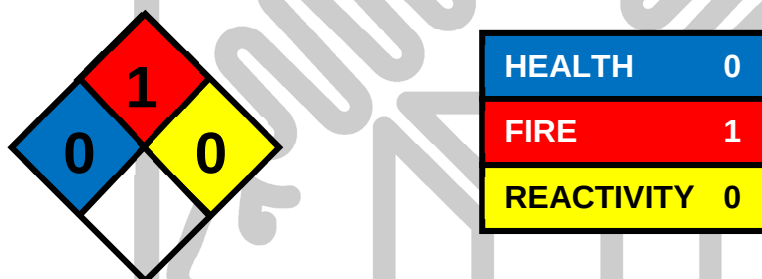
Poly lactide

Substances:

CAS nr.	identification	Hazard – risk
4511-42-6	L-Lactide	None known
95-96-5	DL-Lactide	None known
61063-13-9	Poly (DL-Lactide)	None known
33135-50-1	Poly (L-Lactide)	None Known

Quality of selected polymers:

- Residual monomer < 0.5%
- Residual solvent < 0.05%
- Residual catalyst <200ppm
- Heavy metal < 10ppm
- Water content: ≤ 0.5%

NFPA rating / HMIS rating:**Health hazard information:**

May cause mild skin and eye irritation if reacted with water

Medical conditions aggravated by exposure: none expected, based on available information

First aid:

Eye contact: Solid or dust may cause irritation or corneal injury due to mechanical action
Skin contact: Essentially nonirritating to skin, mechanical injury only
Inhalation: No harmful effects expected, if any symptoms obtain medical support
Ingestion: No harmful effects expected, if any symptoms obtain medical support

Precautions for safe handling and use:

For operations where eye or face contact can occur, eye protection is recommended

Avoid breathing dust

Hot and/or melted polymer can severely burn the skin – handle with care

Extrude only in a well-ventilated area, never burn filament, toxic gasses and vapors will be generated if exposed to fire.

Exposure control methods:

Non for normal use

Fire and explosion hazard information:

The material will burn if exposed to sufficient heat and an ignition source
Avoid dispersion of dust in the air to reduce dust explosion hazard potential

Fire-fighting:

Use water, carbon dioxide, dry chemical powder or foam to extinguish fires
Firefighters must wear self-contained positive pressure breathing apparatus and fully protective equipment

Reactive data:

Stability:	stable
Incompatibility:	stable
Decomposition:	slow reaction in the presence of water
Polymerization:	will not occur
Combustion:	carbon monoxide and/or carbon dioxide may form during combustion

Physical properties:

Appearance: solid filament
Solubility in water: reacts very slowly with water

Spill or leak procedures:

Collect for disposal, use appropriate personal protective equipment during clean-up

Waste disposal:

The material is non-hazardous and biodegradable
Disposal must be made in accordance with the applicable governmental regulations.

Storage conditions:

Keep dry in a cool place, when the plastic foil is opened store in a container together with a desiccant to maintain product quality. Keep the container closed until it is ready for use.

Shipping information:

D.O.T.: not regulated as hazardous by D.O.T or I.M.O

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission directive 1999/45/EC, 1967/548/EEC

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