colorFabb PA-CF Low Warp



1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Identification of the substance orTrade Name: Colorfabb PA-CF Low Warp;

preparation: 3D printing filament; All information in this SDS is applicable to the

filament material, not the filament spool itself.

1.2 Use of the substance or preparation: High performance thermoplastic filament for FDM 3D printing

1.3 Company/undertaking identification Colorfabb B.V.

Bremweg 7

NL-5951 DK BELFELD, The Netherlands

Tel.: +31 77 4664015 Fax: +31 77 3971414

E-mail: sales@colorfabb.com

1.4 Emergency telephone: Colorfabb B.V.; Tel.: 077 4664015 (only during office hours)

2. HAZARDS IDENTIFICATION

2.1 Classification This product is not classified as dangerous according to Regulation (EC)

1272/2008 (CLP)

2.2 Label elements Health hazards: Not applicable

Environmental hazards Not applicable
Hazard symbol Not applicable
Signal Word Not applicable
Hazard Statement Not applicable
Precautionary statement Not applicable
PBT and vPvB substances Not applicable

2.3 Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0,1% or higher

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Desciption colorFabb PA-CF is a polyamide based thermoplastic material filled

with carbon fiber reinforcement.

3.2 Hazardous ingredients

Substance name CAS number Concentration Classification H-Phrases

No hazardous --- --- --- ---

ingredients

3.3 Additional information None

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4. FIRST AID MEASURES

4.1 Skin contact Do not use solvents or thinners. Molten material e.g. during printing, can cause

burns. In case of burns cool immediately with plenty of water for at least 10

minutes. Do not remove solidified product. Seek medical attention.

4.2 Eye contact Unlikely during normal use. If material particles get in contact with eyes (e.g.

grinding), mechanical irritation might occur. Rinse thoroughly with plenty of water.

Keep eyes wide open while rinsing.

4.3 Inhalation Not likely during normal use. Long term overheating or burning of material can

generate decomposition products. After inhalation of decomposition products/fumes, move to fresh air. If symptoms persist, call a physician.

4.4 Ingestion Unlikely due to physical form. If symptoms occur, seek medical attention.

4.5 Note to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media Dry chemical extinguishing media, foam, water spray or

carbon dioxide

Water jet

5.2 Extinguishing media not to be used for safety

easons

5.3 Special hazards arising from the mixture In case of fire or excessive high temperatures,

generation and build-up of dangerous/toxic

decomposition fumes is possible. Possible hazardous combustion products: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrogen sulphide,

metal oxides, ammonia.

5.4 Protective equipment for fire fighters In the event of fire, wear full protective clothing and

self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.2 Environmental precautions

6.1 Personal precautionsNone required; use adequate ventilation during

printing; avoid dust formation and breathing dust.
Prevent material ending up in environment. Do not allow contact with soil, surface or ground water.

6.3 Cleanup, containment and disposal of spillSweep up or vacuum up spillage and collect in suitable

container for disposal

6.4 Reference to other sections For personal protection see Section 8. For disposal

considerations see Section 13.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling Provide for appropriate exhaust ventilation at machine. Do not breath

vapours/dust. Wear personal protective equipment.

The material can accumulate static charge and can therefore cause electrical ignition. Take measures to prevent buildup of electrostatic

charge.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Wash hands before breaks and

immediately after handling the product. Keep away from food and drinks.

When using, do not eat, drink, smoke.

7.2 Conditions for safe storage Keep spools in original box and in a cool and well ventilated place. Keep

away from heat and sources of ignition. Keep away from direct sunlight.

7.3 Specific use Product is meant to be used for FDM 3D printing only.

For further specifics on use, see technical datasheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No	Value type	Control parameters	Basis
Carbon Black	1333-86-4	TWE	3,5 mg/kg	GB EH40
		STEL	7 mg/kg	GB EH40

Derived No Effect Level (DNEL) according Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Carbon black	Workers	Inhalation		2 mg/m3
Remarks	DNEL (long term rep.)			

8.2 Exposure controls

Appropriate Engineering Controls Provide sufficient air exchange and/or exhaust in work rooms. Provide

appropriate exhaust ventilation at machinery

Personal protection measures

Eye protection Not required (for FDM printing)

Hand protection Not required (for FDM printing); when handling molten material wear

protective gloves to prevent burns.

Skin protection Not required (for FDM printing)

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Respiratory protection Not required (for FDM printing);

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Do

not eat, drink or smoke when using this product.

Environmental exposure controls Do not allow product to enter drains, water courses or soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance Solid, Filament winded onto spool

ColourBlackOdourNone

pH Not determined
Melting point Approx. 235 °C
Boiling point Not determined
Flash point Not determined
Flammability No data available
Upper explosion limits No data available

Lower explosion limits The product is not explosive by itself, but it may form explosive dust.

Vapour pressure Not determined Relative density No data available Density Not determined Not determined Solubility Ignition temperature Not determined **Decomposition temperature** No data available Viscosity Not applicable Not determined Conductivity

9.2 Important health, safety and environmental information

Softening point >200 °C

10. STABILITY AND REACTIVITY

10.1 Reactivity No decomposition if stored and applied as directed

10.2 Chemical stability The product is chemical stable

10.3 Possibility of hazardous reactions Finely dispersed particles form explosive mixtures with air

Burning produces noxious and toxic fumes.

10.4 Conditions to avoid Keep away from heat and sources of ignition.

Avoid dust formation Avoid moisture

10.5 Incompatible materials No data available

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10.6 Hazardous decomposition products Carbon dioxide, carbon monoxide, unburned hydrocarbons

(smoke), nitrogen oxides, hydrogen cyanide, styrene, sulphur

oxides, metal oxides, ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity No data available Acute inhalation toxicity No data available **Acute dermal toxicity** No data available

Skin corrosion/irritation No known irritant effects; dust may cause irritation of respiratory

Serious eye damage/eye irritation Dust may cause mechanical irritation of the eyes

Respiratory or skin sensitisation No known sensitizing effect

Germ cell mutagenicity

Carcinogenicity Reproductive toxicity

Genotoxicity in vitro No data available Genotoxicity in vivo No data available No data available No data available STOT - single exposure No data available

STOT - repeated exposure No data available **Aspiration toxicity** No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish No data available No data available Toxicity to daphnia and other aquatic

invertebrades

Toxicity to algae No data available Toxicity to microorganisms No data available

12.2 Persistence and degradability No data available on biodegradability

12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of

0,1% or higher.

12.6 Other adverse effects Material should not be released into the environment

12.7 Additional ecotoxicological information

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of in accordance with European Directives on waste and in

accordance with local and national regulations.

13.2 Additional information n.a

13.3 Packaging Dispose of packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 RID / ADR Not listed / free

14.2 ICAO / IATA-DGR Not listed / free

14.3 GGVSEE / IMDG-CODE Not listed / free

14.4 UN-NR Not listed / free

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the substance or mixture

Restrictions of use None

Other regulations No information available / none known

n.a.

15.2 Chemical safety assessment A safety assessment is not required / not available

16. OTHER INFORMATIE

Relevant H-phrase: None

Changes compared to

previous version:

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.

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