



MATERIAL SAFETY DATA SHEET

DURAPRO PC FR V0



1. PRODUCT IDENTIFICATION

TRADE NAME	Extruder DuraPro PC FR V0
MANUFACTURER	Extruder FD3D GmbH Glaserweg 24 6890 Lustenau Austria info@extruder.com
USE OF PRODUCT	Polycarbonat-compound, suitable for 3D printing filament

2. HAZARD IDENTIFICATION

CLASSIFICATION	Not applicable
LABEL ELEMENTS	Warning
SPECIAL ADVICE ON HAZARDS	If fine particles are generated during further processing, handling or by other means, product may form combustible dust concentrations in air.

3. COMPOSITION

CHEMICAL PROPERTIES	Polycarbonate with acrylonitrile-butadiene-styrene copolymer and halogen-free flame retardant additives
ADDITIONAL INFORMATION	There are no hazardous components above the relevant concentration limits according to OSHA's Hazard Communication Standard 2024 (29 CFR 1910.1200).

4. FIRST-AID MEASURES

ON SKIN CONTACT	Contact with heated material can cause thermal burns. Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.
AFTER INHALATION	Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
ON INGESTION	Get medical attention.
ON EYE CONTACT	In case of contact, flush eyes with plenty of lukewarm water.



5. FIRE-FIGHT MEASURES

FIRE EXTINGUISHING MEDIA	Water fog, dry chemical, carbon dioxide (CO ₂), foam
UNSUITABLE FIRE EXTINGUISHING MEDIA	High pressure water streams
SPECIAL EXPOSURE HAZARDS	Due to incomplete combustion, release of PhenolStyrolAcrylnitril carbon oxides and hazardous decomposition products possible.
SPECIAL PROTECTIVE EQUIPMENT	Self-contained breathing apparatus.
REMARK	During burning or thermal decomposition, toxic and irritating gases/fumes may be given off. Avoid generating dust: fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Use suitable protective clothing. Avoid eye contact and inhalation of dusts. Keep ignition sources away.
METHODS FOR CLEANING	If molten, allow material to cool and place into an appropriate marked container for disposal. Sweep up and shovel into suitable containers for disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture as they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (e.g., cleaning dust from surfaces with compressed air).

7. HANDLING AND STORAGE

HANDLING	Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Minimize dust generation and accumulation. Routine housekeeping should be instituted.
STORAGE	Store at a maximum of 49 °C. Containers should be tightly closed to prevent contamination with foreign materials and moisture.

8. PERSONAL PROTECTION

TECHNICAL SAFETY MEASURES	With suitable ventilation, the threshold limits assumably will not be reached. Avoid electrostatic charge by use of grounding cables. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling.
PERSONAL SAFETY EQUIPMENT	Use adequate safety equipment, e.g. protective clothing, safety glasses with side-shields, heat resistant gloves. In case of dust formation, wear mask with particle filter.
WORK HYGIENE	No eating or drinking during working. Wash your hands and face before eating, drinking, or using tobacco products. Avoid skin contact with hot material. Avoid breathing dust and vapours.



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Filament
COLOR	Natural
ODOR	Odorless
MELTING POINT	220°C
OXIDISING PROPERTIES	Not available
DENSITY	Approx. 1.1–1.2 g/cm ³
SOLUBILITY IN WATER	Practically insoluble
DECOMPOSITION TEMPERATURE	≥ 380 °C
SOFTENING POINT	100–200 °C

10. STABILITY AND REACTIVITY

STABILITY	The product is stable at recommended storage conditions.
SUBSTANCES TO BE AVOIDED	None known.
CONDITIONS TO BE AVOIDED	Avoid generation of dust clouds.
HAZARDOUS DECOMPOSITION PRODUCTS	By fire and thermal decomposition: Phenol, Styrol, Acrylnitril, Carbon oxides. Due to incomplete combustion: further hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

LOCAL IRRITATION	Contact with heated material can cause thermal burns., Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract.
OTHER REMARKS	Based on our state of knowledge and experience, no harmful effects on health are to be expected when the product is properly handled for the designated use.

12. INFORMATION ON OTHER DANGERS

ENDOCRINE DISRUPTING PROPERTIES	No effects known
OTHER INFORMATION	None



13. ECOLOGICAL INFORMATION

ECOLOGICAL EFFECTS	Not available
BIOLOGICAL DEGRADATION	Not available
BIOACCUMULATION	Not available

14. DISPOSAL CONSIDERATIONS

PRODUCT	Generation of waste should be minimised. Check possibility for recycling. The waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.
SPECIAL PRECAUTIONS	Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

15. TRANSPORT INFORMATION

TRANSPORT REGULATIONS	Not classified as hazardous under transport regulations ADR, ADNR, RID, ICAO/IATA, IMDG / GGVSee.
SPECIAL PRECAUTIONS FOR USER RELATED TRANSPORT OR TRANSPORTATION MEASURES	Local transport follows in accordance with Dangerous Goods Safety Management Law. Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements. EmS FIRE SCHEDULE: Not available EmS SPILLAGE SCHEDULE: Not available

16. REGULATORY INFORMATION

EU REGULATIONS	This product does not require a hazard warning label in accordance with EC Directives.
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17. OTHER INFORMATION

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for the purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein..

This Safety Data Sheet was compiled with data and information from the following sources:
KOSHA, NITE, ESIS, NLM, SIDS, IPCS