



REGULATORY INFORMATION SHEET

PLA TOUGH

1. PRODUCT IDENTIFICATION

TRADE NAME	Extrudr PLA Tough
MANUFACTURER	Extrudr FD3D GmbH Glaserweg 24 6890 Lustenau Austria info@extrudr.com
USE OF PRODUCT	Biodegradable polymer compound, suitable for 3D printing filament

2. EUROPEAN UNION FOOD CONTACT

The product is in compliance with the rules of the Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, Official Journal of the European Union L 338/4 of 13 November 2004.

Foodstuffs, Consumer Goods and Animal Feed Code (Foodstuffs and Animal Feed Code-LFGB) in the version of the notification of 3 June 2013 (BGBl. P. 1426), last amended by article 4 section 20 of the law of 7 August 2013 (BGBl. I p. 3154), §§ 30 and 31.

The product meets the demands of the Decree on Consumer Goods in the version of the communication of 23 December 1997 (BGBl. 1998 I p. 5), last amended by Article 1 of the Decree of 24 June 2013 (BGBl. I p. 1682).

The composition of the product complies with the requirements of the Commission Regulation (EU) No. 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, Official Journal of the European Union L 12/1 of 15 January 2011, as amended by 321/2011, 1282/2011, 1183/2012, 202/2014, 2015/174, 2016/1416, 2017/752, 2018/79, 2018/213, 2018/831, 2019/37, 2019/988, 2019/1338, 2020/1245, 2023/1442, 2023/1627, 2024/3190, 2025/351 and 2026/245.

The product complies with the requirements of Regulation (EC) No. 2024/3190 amended by EC 2026/250. There is no intentional use of Bisphenol A and all bisphenols and bisphenol derivatives that fall within the scope of Regulation (EC) 2024/3190.

The product complies with Article 5(4) of Regulation (EU) 2025/40 (PPWR): the combined concentration of lead, cadmium, mercury and hexavalent chromium in the material does not exceed 100 mg/kg (100 ppm). The product also complies with Article 5(5) of Regulation (EU) 2025/40 (PPWR) concerning PFAS restrictions applicable to food-contact packaging.

The product complies with the FDA (U.S. Food and Drug Administration) regulations as defined in 21 CFR (U.S. Code of Federal Regulations). On 30 November 2018, FCN 001926 became effective and is included in the list of effective notifications for FCNs on the FDA website. The product is approved for all food types for single use and repeat use articles and conditions of use B through H (except infant formula and human milk).

SML AND SML(T)	Specific migration limits
QM	Maximum permitted quantity of residual in the final product.
ND	Not detectable, the substance must not migrate in detectable amounts.

4. REACH & ECHA

The material is free from substances of very high concern (SVHC) in a concentration above 0.1 %, as published by the European Chemicals Agency (ECHA) in the Candidate List in accordance with Article 59(10) of the REACH Regulation (EC) No. 1907/2006, last updated on February 4, 2026.

5. ROHS

According to the information provided by our raw material suppliers and our standard production procedures, none of the substances listed in Directive 2011/65/EU of 8 June 2011 are allowed to be present:

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| ▪ Lead (Pb) | ▪ Polybrominated Diphenyl Ethers (PBDE) |
| ▪ Mercury (Hg) | ▪ Bis(2-Ethylhexyl)phthalate (DEHP) |
| ▪ Cadmium (Cd) | ▪ Benzylbutylphthalate (BBP) |
| ▪ Hexavalent Chromium (Cr VI) | ▪ Dibutylphthalate (DBP) |
| ▪ Polybrominated Biphenyls (PBB) | ▪ Diisobutylphthalate (DIBP) |

5. SAFETY OF TOYS

EN 71-3

This compound complies with the requirements of European standard EN 71 regarding the safety of toys part 3: "migration of certain elements". Please note this standard refers to finished toys only.

6. LIABILITY LIMITATION

Please note that this compound has not been tested for trace amounts of the substances aforementioned or listed within the regulations. However, based on the information obtained from upstream suppliers there is no reason to expect any of the substances listed to be present within this compound. The values listed have been established on standardized test specimens at standard temperature and humidity conditions. The figures should be considered as guide values only. Under certain conditions the processing conditions can have a significant influence on the properties.

FD3D GmbH shall not be liable for the use of this information or of any product, method or equipment mentioned. Customers must undertake their own determination of this product's suitability and completeness for their own use, for the protection of the environment, for the health and safety of their employees and purchasers of their products. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of the seller's conditions of sale.