



REGULATORY INFORMATION SHEET

extrudr ABS

1. PRODUCT IDENTIFICATION

1.1 PRODUCT IDENTIFIER

TRADE NAME Extrudr ABS

1.2 MANUFACTURER

ADDRESS FD3D GmbH/Extrudr
Höchsterstraße 81
A-6972 Fußach

EMAIL info@extrudr.eu

2. EUROPEAN UNION FOOD CONTACT

Regulation (EU) 10/2011 Annex IV

This certificate states that our product called Extrudr ABS is in full compliance with the applicable requirements of CFR 21 §181.32 of US FDA (Food and Drug Administration) for use in contact with food.

Therefore, Extrudr ABS can be used in applications for direct/indirect food contact under the FDA regulation.

We hereby certify that Extrudr ABS complies with the specification according to EU Directive 2009/48/EC - EN-71, Part3: 2013

| MATERIALS | LIMITS (MG/KG) | POWDER TYPE | LIQUID TYPE |
|----------------|----------------|-------------|-------------|
| Antimony (Sb) | 45 | 11.3 | 560 |
| Arsenic (As) | 3.8 | 0.9 | 47 |
| Barium (Ba) | 1,500 | 375 | 18,750 |
| Cadmium (Cr) | 1.3 | 0.3 | 17 |
| Cadmium (Cr) | 37.5 | 9.4 | 460 |
| Chromium (Cr) | 0.02 | 0.005 | 0.2 |
| Mercury (Hg) | 13.5 | 3.4 | 160 |
| Lead (Pb) | 7.5 | 1.9 | 94 |
| Selenium (Se) | 37.5 | 9.4 | 460 |
| Aluminium (Al) | 5,625 | 1,406 | 70,000 |
| Boron (B) | 1,200 | 300 | 15,000 |
| Cobalt (Co) | 10.5 | 2.6 | 130 |

| | | | |
|------------------|--------|-------|---------|
| Copper (Cu) | 622.5 | 156 | 7,700 |
| Manganese (Mn) | 1,200 | 300 | 15,000 |
| Nickel (Ni) | 75 | 18.8 | 930 |
| Strontium (Sr) | 4,500 | 1,125 | 56,000 |
| Tin (Sn) | 15,000 | 3,750 | 180,000 |
| Organic Tin (Sn) | 0.9 | 0.2 | 12 |
| Zinc (Zn) | 3,750 | 938 | 46,000 |

The overall and specific migration tests carried out under recommended conditions (10 days/40°C) and (10 days / 40°C) respectively, using the food stimulants Ethanol 50%, Acetic acid 3% and Vegetable oil, show that the polymer meet the migration limits required by EU legislation.

3. REACH & EACH

The material is free of Substance of Very High Concern (SVHS) listed in the REACH candidate by the ECHA on the 7th July 2017 is present in a concentration above 0,1%.

4. 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 standardised 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.

Neither FD3D GmbH shall be responsible 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.