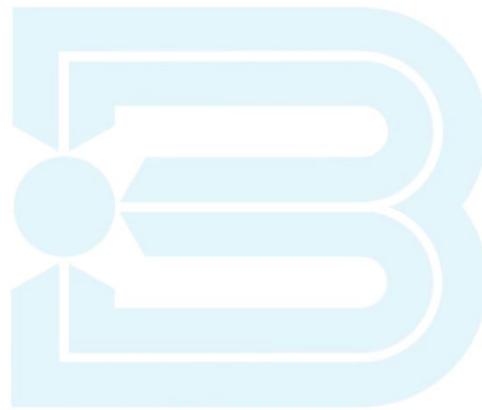


BUHLMANN

POLYPROPYLENE 3D PRINTING



AGENDA

☐ **Polypropylene**

☐ **3d design (step files creation)**

☐ **Printing parametrization for**

- Prototype printing
- Small series printing

☐ **Production**

POLYPROPYLENE

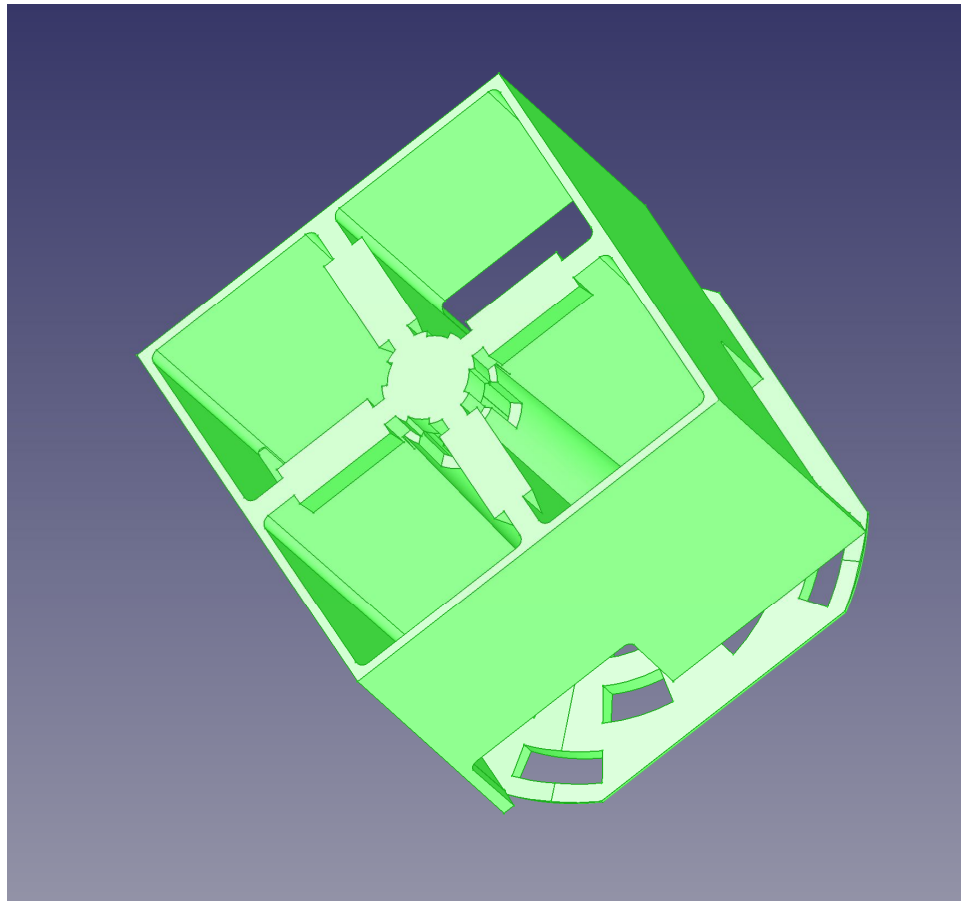
☐ Extremely stable material

- Suitable for food applications
- Suitable for injectable materials
- Resistant to corrosive materials

Solvent	Articles of Commerce	PP. Average % Weight Gain/Loss (1 month @ 24±3°C)
Density, g/cm ³		0.89
Distilled Water	Beverages	0
Antifreeze	Automotive	0
Detergent, 2%	Laundry	0
Acetic Acid, 50%	Acidic Foods	0
Ammonium Hydroxide, 10%	Cleaners	0
Hydrochloric Acid	Strong Acids	0
Hydrogen Peroxide, 30%	Oxidizers	0
Nitric Acid, 40%	Acids/Oxidizers	1
Sodium Carbonate, 20%	Basic Foods	0
Sodium Hydroxide, 60%	Caustics	0
Sodium Hypochlorite, 5%	Detergents	0
Methanol	Cleaners	0
Acetone	Cleaners	2
Olive Oil	Fatty Foods	1
Ethyl Acetate	Solvents	12
Ethanol, 95%	Solvents	1
Ethylene Dichloride	Alcohols	28
Isooctane	Solvents	failed
Kerosene	Solvents	failed
Mineral Oil	Solvents	21
Toluene	Solvents	failed

3D DESIGN

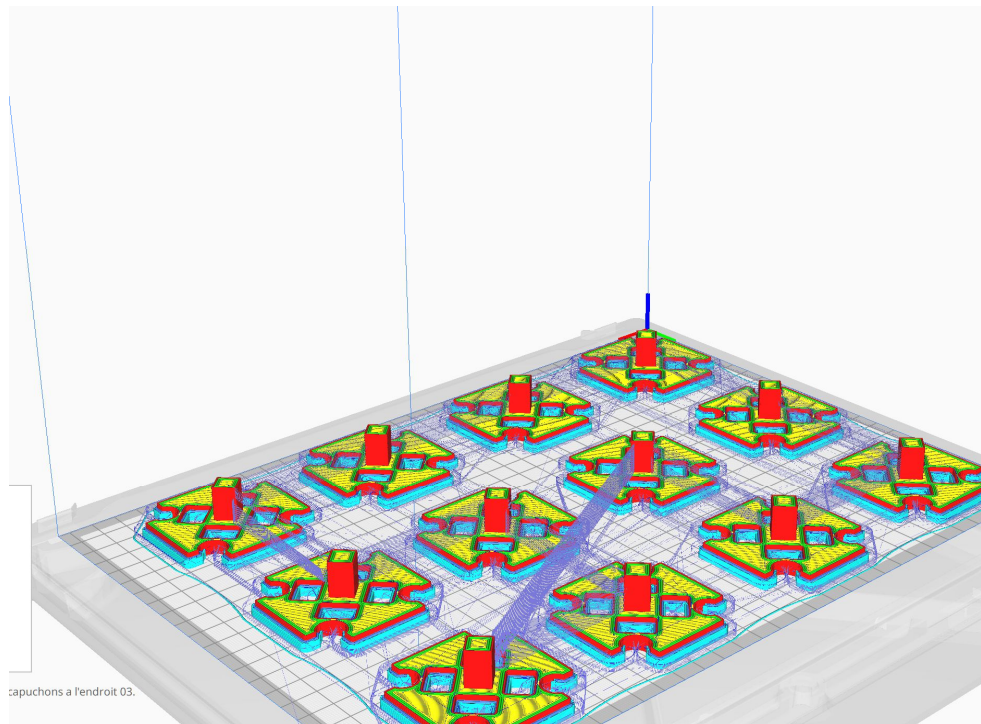
We help you create your 3D design or we use the one you provide us



BUHLMANN

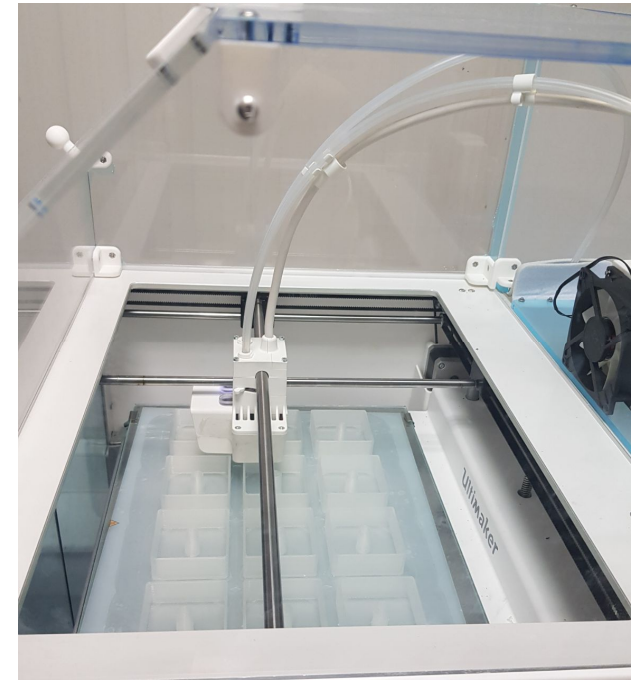
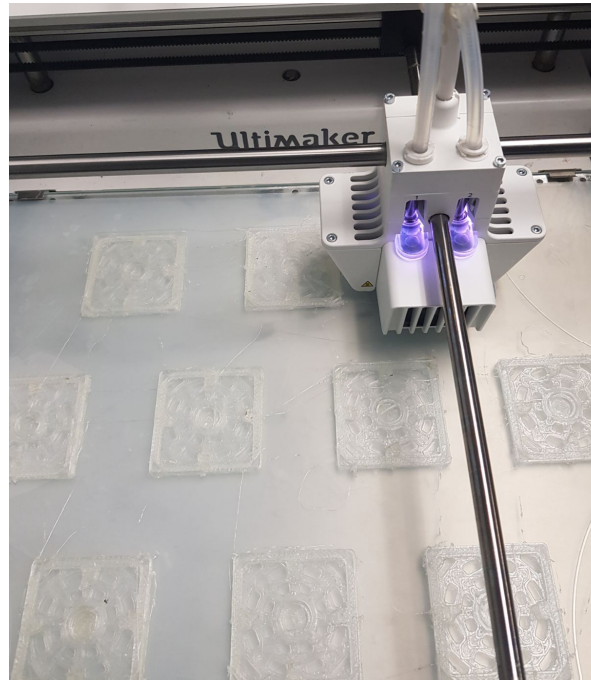
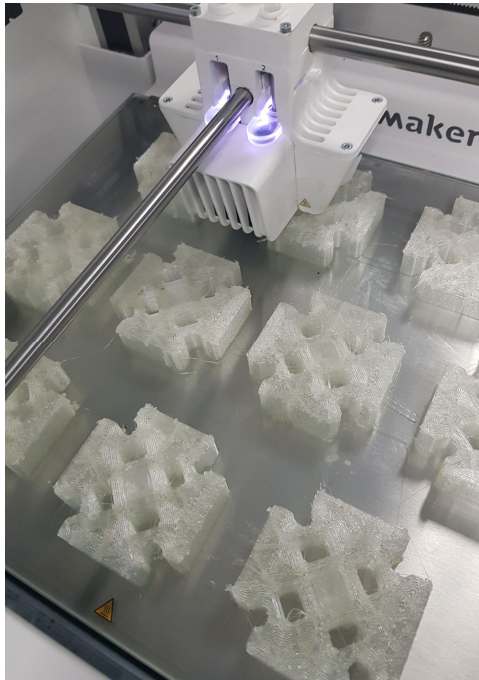
PRINT PARAMETRIZATION

We prepare parameters sets and test them for optimal production time, quality and repeatability



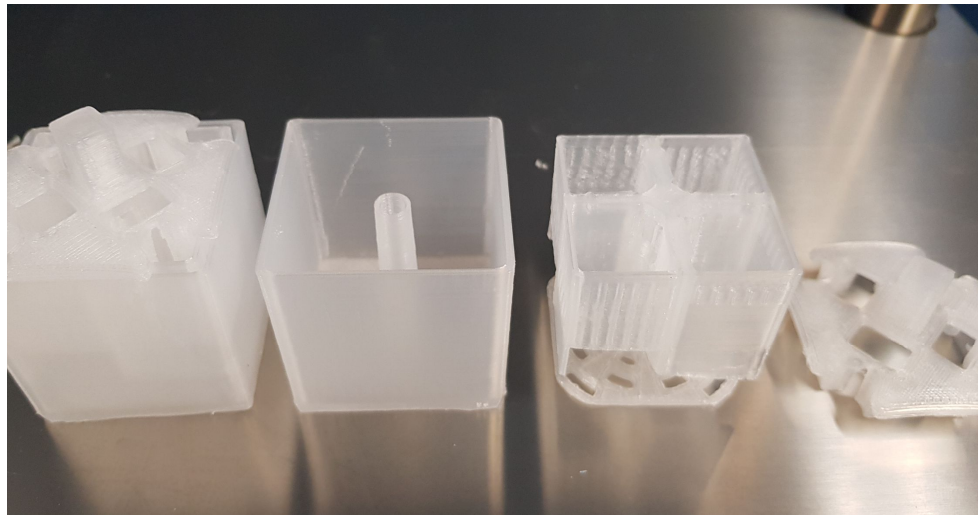
PRODUCTION

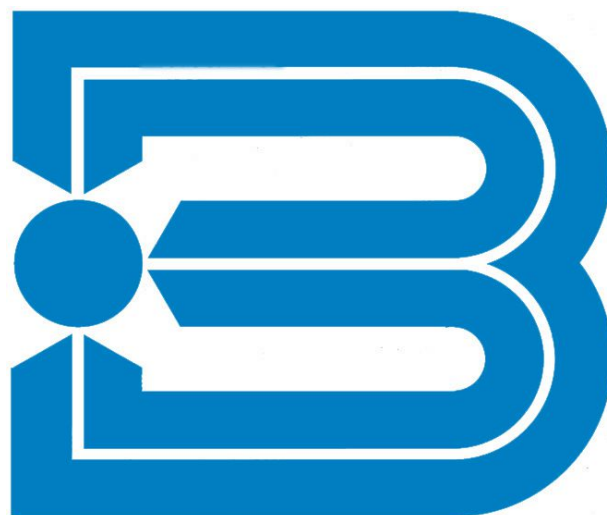
We produce,...



PRODUCTION

...post process and deliver.





WWW.BUHLMANN.BE