From prototyping to mass production: How to cut your lead time by months

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“Creating a safe and ultra-connected society with functional plastics”
This is Premix!

Premix Oy is a European market leader and global forerunner both in Electrically Conductive Plastics and RF Materials. Strong focus in developing future material solutions.

- Family owned, independent company. Established 1980
- 100 employees (Premix Group and joint ventures in total 350)
- Sales revenue 37 M€ (2018)
- Annual capacity 23,000 metric tons
Premix globally

Premix Group
Premix Oy, Headquarters
Rajamäki, Finland
Premix GmbH, Sales Office
Schafflund, Germany
Premix Shanghai, Sales Office
Shanghai, China

Opta Polymers, Joint Venture Company
Nanjing, China
Samix, Joint Venture Company
Yangzhong, China

Network of local distributors and warehouses in over 30 countries
Premix’s functional plastic materials create a safe and ultra connected society in:

- **Automotive & Smart Driving**
- **Diagnostics**
- **Electronics Packaging**
- **Healthcare and Wellbeing**
- **Industrial applications**
- **Wireless Communications**

From prototyping to mass production.

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From prototyping to mass production

In the launch of a new product, time-to-market is crucial.

When turning an RF simulation into a high-quality product, prototyping is the first step bringing you closer to the market by ensuring your idea and design are viable.

Premix offers a concept to support customers along the way from the first sketch to the ramp-up and production, by offering material as well as RF and production expertise.

- Years of expertise in materials and processing
- PREPERM® dielectric thermoplastics as stock shapes for easy CNC machining
- PREPERM® dielectric thermoplastics as filament for 3D printing
- Ready made components, CNC machined or injection moulded parts, based on the customer design
Premix expertise, support and partnership along the path from new design idea to product in the market

From prototyping to mass production

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Design

NDA
Mutual trust in all communication and collaboration regarding your valuable design and product concept is of primary importance in all we do.

We support your new product design by our processing expertise. It is of vital importance to consider processability in an early stage of design. In most cases, the RF optimized 3D model is not the same thing as an optimal manufacturable model.

3D model & Material choice
3D design can be evaluated by Premix expert from mechanical and manufacturing point of view. We consult the customer on the optimal choice of material to fulfil the specification.
Validation

Prototyping and mass production evaluation
Premix prepares quotation for prototyping parts, and for parts in mass production.

Prototype manufacturing
In partnership with our skilled supplier network we supply the custom designs as machined prototypes, typically in 3-4 weeks. For fast prototyping we supply filaments for FDM type 3D printers. The ABS based PREPERM® filaments portfolio covers permittivity from 3 to 12.

Testing
The customer will be testing the new design performance, i.e. from mechanical and from RF point of view. Premix has a comprehensive testing lab (impedance analyser and SPDR equipment), to guarantee the measured dielectric properties (Dk and Df) of materials.
Commercialization

**Product introduction**
Premix has a wide network of global logistics partners. We are reliable and scalable in our deliveries - from us you get the amount you need when you need it!

**Mass production**
The success of our customer’s product is our success!
We help you to realize your design
Webshop at your service

Stock shapes

- Rods
- Sheets
- 3D filaments

Services available

- Prototyping
- Painting
- CNC Machining
- $\varepsilon_r$ measurements

www.preperm.com/webshop
Summary

Premix is your global one-stop-shop: we team you up with the best partners and support your product development project all the way from idea to mass production.

Customer Promise
The customer is our inspiration and the core of our business.

Appreciation
Our corporate culture is characterized by mutual respect and openness.

Passion
We really care, and it shows in our work.

Growth
We share a strong will to grow and grab the opportunities.
LET’S MAKE A GOOD MIX

www.preperm.com
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