



# Polymer compounding and laboratory services

Your trusted compounding partner in innovating new plastic material solutions to the most demanding applications with over 40 years of experience.

Our formula for success is expertise and experience combined with a passion for polymers.

**PREMIX**



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## Your trusted and innovative compounding partner

Need to protect electronic components from static electricity or keep explosive environments safe? Or do you have need to detect liquid levels accurately?

Premix has a long history of providing specialty plastics and services to meet the most demanding material needs. We are the experts in creating and producing functional plastic materials and a widely recognized expert in polymer modification.

Our solutions are more than just traditional plastics – they play an active role in the product or process they are integrated into. Our tailored material solutions control, for example, static electricity and enable material functionality in various applications.





“Our mission is to be recognized by our customers as **The Team** to be in contact with when you are in a need of new, innovative material solutions, especially regarding sustainability.”

Jan Järveläinen,  
Service Development Director,  
Premix Oy

## Wide range of functional plastic compounds optimized to your application

Premix offers reliable solutions for the most demanding material needs. We optimize the performance of the product our client manufactures by mixing fillers, additives, and the base polymers.

- We add functionality, such as different levels of conductivity for different purposes or antimicrobial properties.
- We improve the properties of the material – for example, make it heat resistant or UV resistant, improve its flowability or viscosity, or change its color.

It is about optimizing the performance of the end-product by utilizing the full potential of the raw materials.

We are recognized as a trusted pioneer, with high standards for quality and safety. Our state-of-the-art facilities and change control management are fine-tuned to the highest standards and the needs of the most strictly regulated industries.

Flexible tubes, hoses, and profiles



Pipette tips



Antimicrobial materials



Films, filaments, and sheets

## Our polymer compounding and laboratory services

Whatever your polymer needs are, our wide range of different types of polymer compounding and laboratory services will provide you with an efficient solution tailored to your application.

We can create functional materials for you from a specific brief or only a rough idea, compare several formulations, run trial tests for your formulation – all the way to full-scale production.

### Solutions for

- Diagnostics and life science
- Healthcare
- Packaging
- Antimicrobial plastics
- Machinery purging

### Our networks at your service

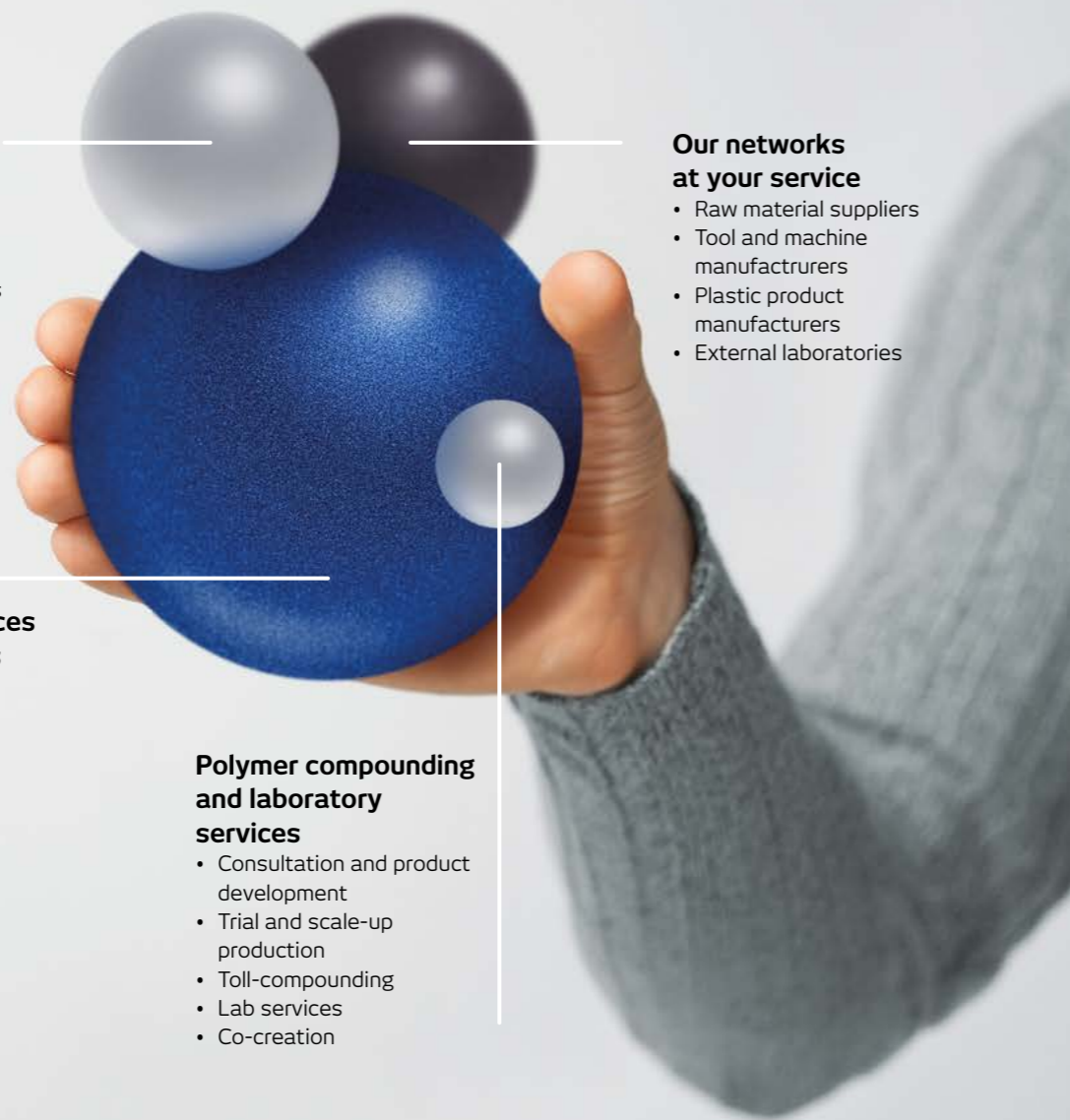
- Raw material suppliers
- Tool and machine manufacturers
- Plastic product manufacturers
- External laboratories

### Special competences in functional fillers

- Carbon black
- Fibers (carbon fiber, glass fiber)
- Mineral fillers
- TiO<sub>2</sub>
- Nanomaterials
- Additives
- Renewable materials

### Polymer compounding and laboratory services

- Consultation and product development
- Trial and scale-up production
- Toll-compounding
- Lab services
- Co-creation



### Laboratory services

We create valuable insights and data for your research challenges.

Our lab is ready to provide you with the information you need to make informed decisions. We can verify compound properties or test or benchmark materials.

### Co-creation

We create new success stories together with our customers.

Together we can turn ideas into tested concepts with our polymer modification knowhow and testing and production facilities.

### Consultation and product development

We turn your vision into a material that performs.

Our polymer modification expertise and agility in developing raw materials will give you new formulations and insights, especially in demanding materials.

### Trial and scale-up production

We take care of the trial test runs to offer you a processing-ready product.

We can help you turn your idea into a functional product by doing pilot compounding, testing alternative raw materials, and doing the test runs for you.



### Toll-compounding

We provide you with smooth tolling services with high and consistent quality.

You can bring us your own raw materials and formulations and let us take care of the manufacturing.





## Examples of Premix services

We have extensive expertise, experience, and comprehensive lab facilities to serve you – either in conjunction with our products or as a separate service when you need our industry-leading knowhow to solve your problem.

<b>Product development and technical service</b>	Formulation development and technical consulting for developing together with the client innovative concepts like sustainable plastics. Pilot trial runs for your own product development purposes and also small-scale production runs.
<b>Piloting</b>	Trial compounding services – the materials and formulations can be provided by Premix or by the client.
<b>Analytics</b>	Standardized characterization of different material properties such as rheological, mechanical, physical and electrical conductivity properties, for example DSC, TG, FTIR.
<b>Technical reporting</b>	Technical documentation to, for instance, deepen the understanding of the process during trial runs or in product development.
<b>Other services</b>	Warehousing; safety stocks, supply guarantees.

*These are only a few examples of our services. When you need a solution for your application, we are only too happy to help.*

## Expertise and materials that matter

We mix materials and create innovative formulations for functional plastics. Our passion and curiosity for polymers drive our customers and us to success.

**We create functionality by mixing polymers and fillers:**

POLYMERS	FILLERS	FEATURES
<b>PP*</b> H/C/R	Carbon black	Conductivity
<b>PE*</b> LD/LLD/MDPE/HDPE	Graphite	Conductivity, less friction, thermal conductivity
<b>PS*</b> HIPS/GPPS	Carbon fiber	Conductivity + mechanical reinforcement
<b>ABS</b>	Glass fiber	Mechanical reinforcement, can be combined with carbon black
<b>PA</b> PA6, PA12, PA6.6	Talc and other minerals	Low mechanical reinforcement, can be combined with carbon black, for more cost-efficient outcomes
<b>PC</b>	CNT (carbon nanotubes)	Low dosage, limited conductivity range, a more exclusive thermoplastic
<b>PC/ABS</b>	TiO2	Whiteness
<b>TPU</b> Ester/Ether	Colors/masterbatches	Precise dosing
<b>TPE</b> SEBS, Olefin-based	Rosin	With PREXELENT® Technology, natural antimicrobial properties to plastic
<b>Other</b> Bioplastics, engineering plastics, etc.	Sustainable fillers, wood composites, cellulose, etc.	Sustainability
	Metals/ heavy substances	High weight per volume, thermoplastic shaping

*\*Also recycled grades available*

*Our compounding facilities enables us also testing other fillers (fillers which can be gravimetrically dosed).*

## LET'S MAKE A GOOD MIX!

*A good mix is about working together with you to solve your material challenges and deliver products that perform.*

We mix materials and create innovative formulations for functional plastics. Our curiosity and passion for polymers pave the way to success for us and our customers. Our latest passion is developing sustainable material solutions to support our customers in creating environmentally friendly alternatives.

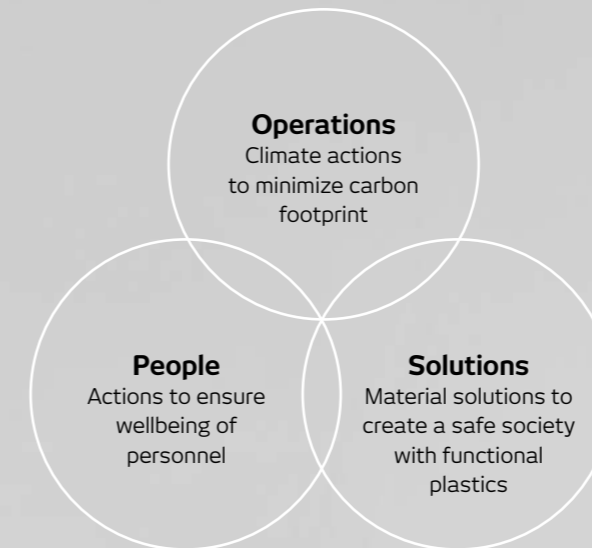
### Premix – Creating a safe society with functional plastics

- We are a leading expert in polymer modification and a pioneer in electrically conductive compounds. We also offer antimicrobial solutions as well as lab services.
- We solve plastic material challenges by compounding functionality into polymers and offering polymer modification services for customers.
- We are recognized as a trusted partner with state-of-the-art facilities and experience dating back over 40 years.
- Family-owned, independent company
- Sustainability and safety plays a central role in our operations and plans.
- Our state-of-the-art factory and headquarters are located in Southern Finland.
- We are currently building a new plant in Gaston County, North Carolina, USA. It will double Premix's manufacturing capacity and serve our international customers.
- Sales office located in Shanghai, China.

### Sustainability

All our actions are in line with our company purpose:  
*Premix creates a safe society with functional materials.*

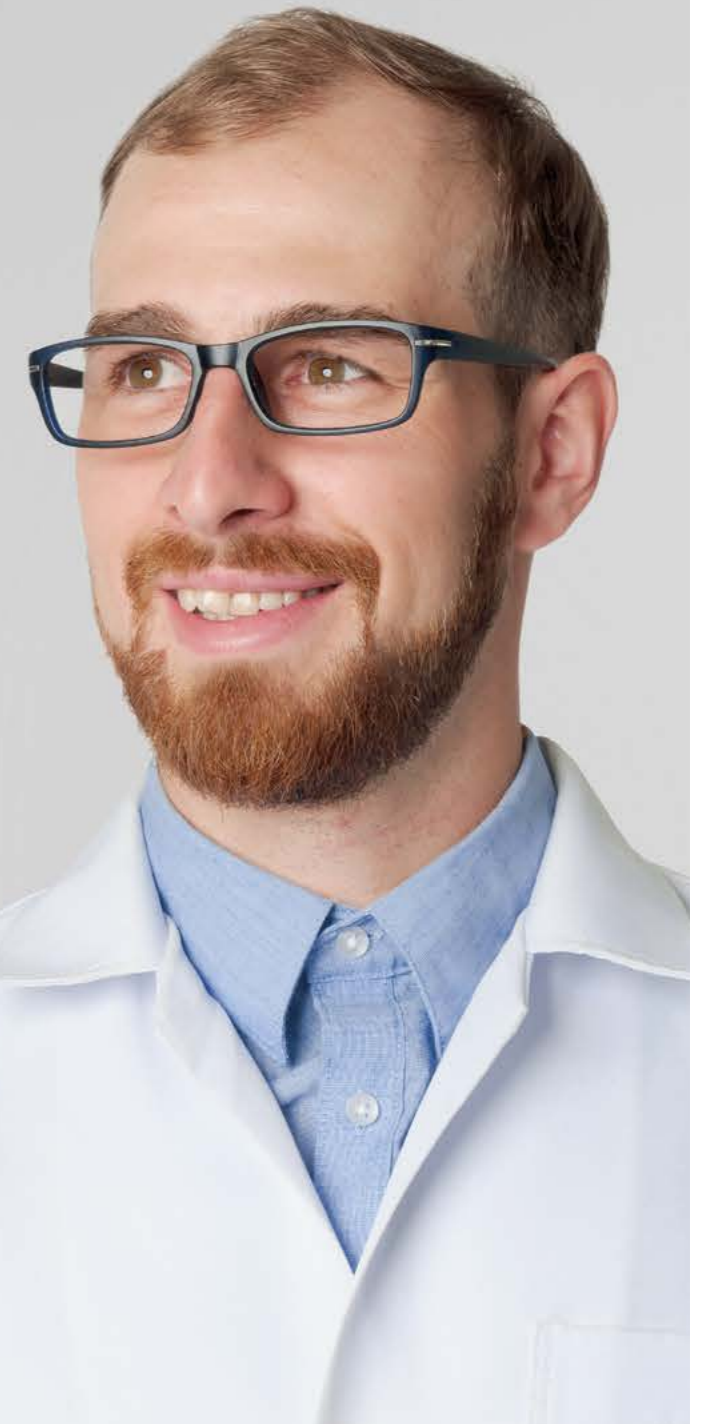
*Our new plant in North Carolina, USA will double Premix's manufacturing capacity once opened in end of 2025.*



### People, solutions, and operations

Our sustainability work focuses on three themes:

1. The Premix team is our greatest asset. This includes not just our own employees, but our customers, suppliers, and other stakeholders, too. We want to ensure their safety, health, and wellbeing in any way we can.
2. Our material solutions advance safety in countless ways in many industries. Through them we leave our fingerprint in society in general.
3. Our own operations, including the supply chain, aim at minimizing our effects on the environment. We are constantly improving our production processes and material effectiveness, for example, through reuse and recycling.



EcoVadis, the leading rating agency for sustainability management, has awarded Premix a Silver Medal. We scored better than 86% of the companies in our business area. Next, we aim for the Gold Medal which is awarded only to 5% of the most sustainable companies.



We are committed to the chemical industry's global Responsible Care® sustainability program. The chemical industry in Finland has the ambitious goal of carbon neutrality by 2045. Premix is involved in achieving these targets and is happy to join forces with the entire industry to reach them.

**PREMIX**

We are ready  
to create a  
new success  
story with  
you!

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Read more about us  
and contact our team:

