



# Diagnosics Life Science Healthcare

Your trusted compounding partner in innovating new material solutions for the most demanding material needs. Our mission is to improve the quality and standard of healthcare and medical materials.

**PREMIX**



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## No room for mistakes

When you are dealing with the health and wellbeing of people, there is no room for mistakes. This is why in diagnostics, lab analytics, and the pharmaceutical industry materials need to meet the highest standards – in quality and safety.

Premix has a long history of providing specialty plastics and services to the key players in the diagnostics and life science industries to meet their most demanding material needs.

We are the experts in creating and producing functional plastic materials and a widely recognized expert in polymer modification.

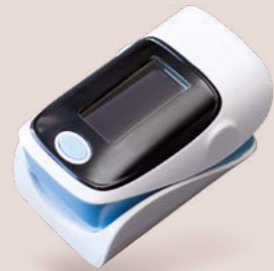
Our solutions are more than just traditional plastics – they play an active role in the product or process they are integrated into. Our tailored material solutions control, for example, static electricity and enable material functionality in various applications.

## Optimized plastic compounds for the needs of the healthcare sector

Premix offers reliable solutions for the most demanding material needs of the healthcare sector. Our plastic materials are used in medical molding solutions, applications for IVD and medical device manufacturers, and the pharmaceutical industry.

Electrically conductive plastics also are essential materials, for example, in hospital environments and body monitoring technologies.

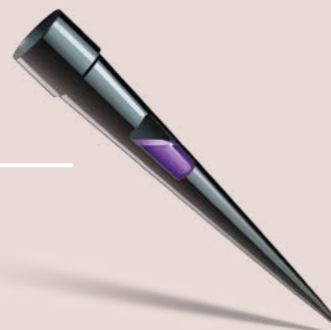
We are recognized as a trusted pioneer, with high standards for quality and safety. Our state-of-the-art facilities and change control management are fine-tuned to the needs and standards of the diagnostics and pharmaceutical industries.



- Plastic compounds for signaling and sensor applications:**
- Medical sensors (ECG electrodes)
  - Body monitoring

### Plastic compounds for consumables and automated liquid handling:

- Pipette tips
- Pipette tip racks
- Microplates
- Cartridges, etc.



- Static control for healthcare facilities:**
- Wheels
  - Medical tubes
  - Fire alarms
  - ESD carpets

### Plastic compounds for pharmaceutical industry:

- Pharmaceutical packaging
- Delivery devices, such as inhalers



## 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.

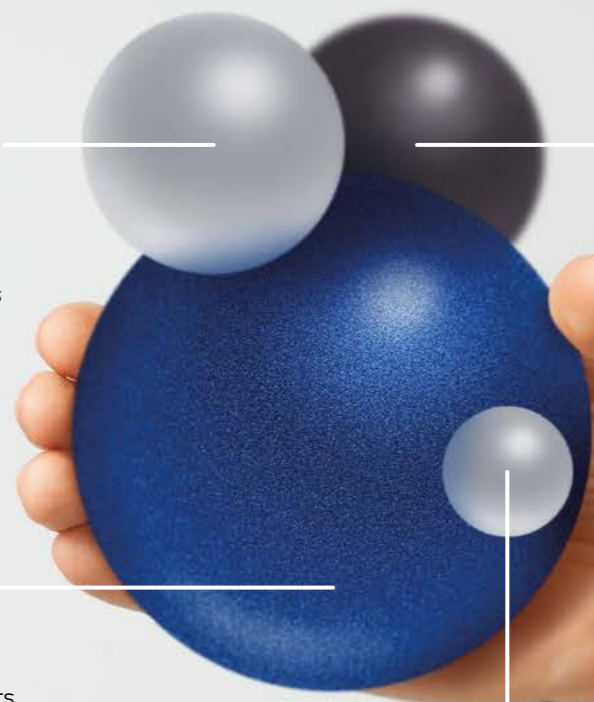
We can create functional materials for you from a specific brief or only a rough idea, compare several formulations, run trial tests for your formulation – all the way to full-scale production.

### 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
- TiO2
- Nanomaterials
- Additives
- Renewable materials

### Polymer compounding and laboratory services

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



### 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.

### 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.

### 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.



## PRE-ELEC® Pipette Tip Materials

Industry reference since 1990s

Premix's pipette tip materials have been recognized as the industry reference since the 1990s when the first liquid handling robots were launched.

Since then, we have developed material properties, production technology, and process capabilities in close cooperation with the diagnostics OEMs, liquid handling manufacturers, and medical molders to make sure our materials meet your needs and are always second to none.

Electrically conductive PRE-ELEC® compounds comply with the high-quality standards and tight production tolerances of in vitro diagnostics and other lab analytics. Mass-production-friendly materials enable faster cycle times and scaling up for higher cavitation tools up to 128 cavities.

### The most accurate liquid level sensing with conductive pipette tips

Conductive pipette tips play a key role in capacitive liquid level sensing, the predominant technology used in modern automated liquid handling systems. Electrically conductive pipette tips enable the measuring of electrical signals at the pipette's tip. The electrical potential changes immediately and accurately as the tip comes into contact with a liquid. It reduces the need to submerge the tip into the liquid to be aspirated.

The perfect pipette tip results from optimized production flow where the material, mold, and production technology work seamlessly together.

### Proven performance in immunological and molecular diagnostics

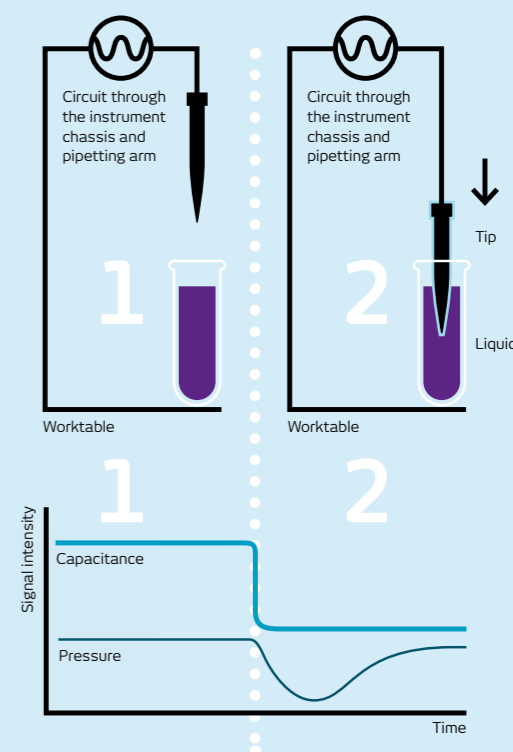
Electrically conductive pipette tips have various advantages:

- Low surface tension
- High hydrophobicity
- Enable capacitive liquid level sensing
- Eliminate the effect of static electricity

These features minimize the risk of cross-contamination and reagent carryover and secure the most precise and accurate pipetting. Conductive pipette tips are essential in confirming reliable diagnostics in all conditions.

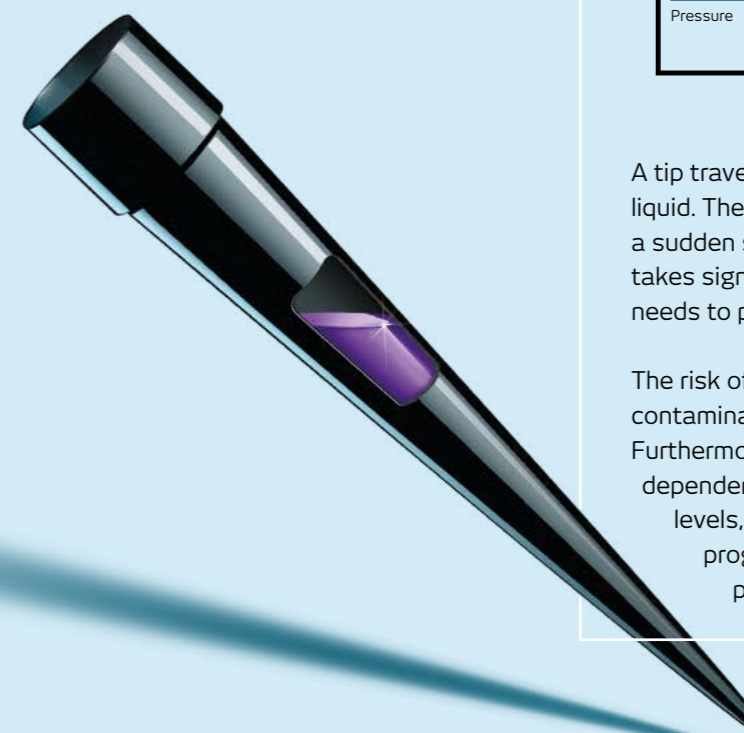
*Precision, purity,  
and consistency  
– the cornerstones of  
PRE-ELEC® compounds.*

### Capacitive liquid level sensing



A tip traveling at constant speed enters the liquid. The change in capacitance is seen as a sudden shift in the baseline, while pressure takes significantly longer to stabilize and needs to penetrate deeper into the liquid.

The risk of liquid carryover and cross contamination is reduced significantly. Furthermore, the liquid handling is less dependent on having consistent liquid levels, and the need for laborious programming of the pipetting position is minimized.



## 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.

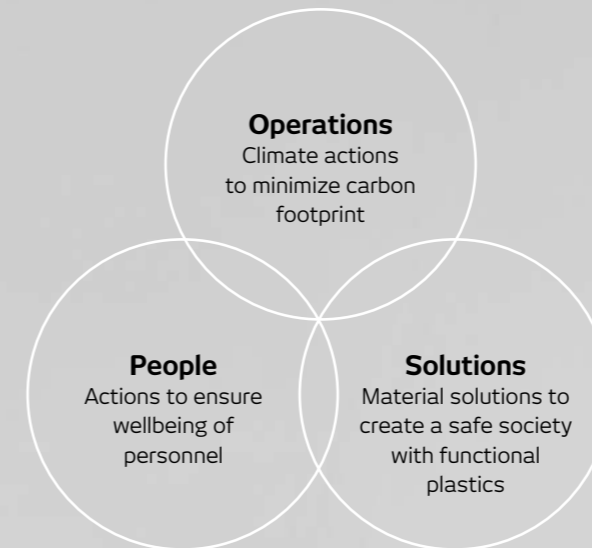
### Premix – Creating a safe society with functional plastics

- 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 our customers have by compounding functionality into polymers and offering polymer modification services.
- 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.*

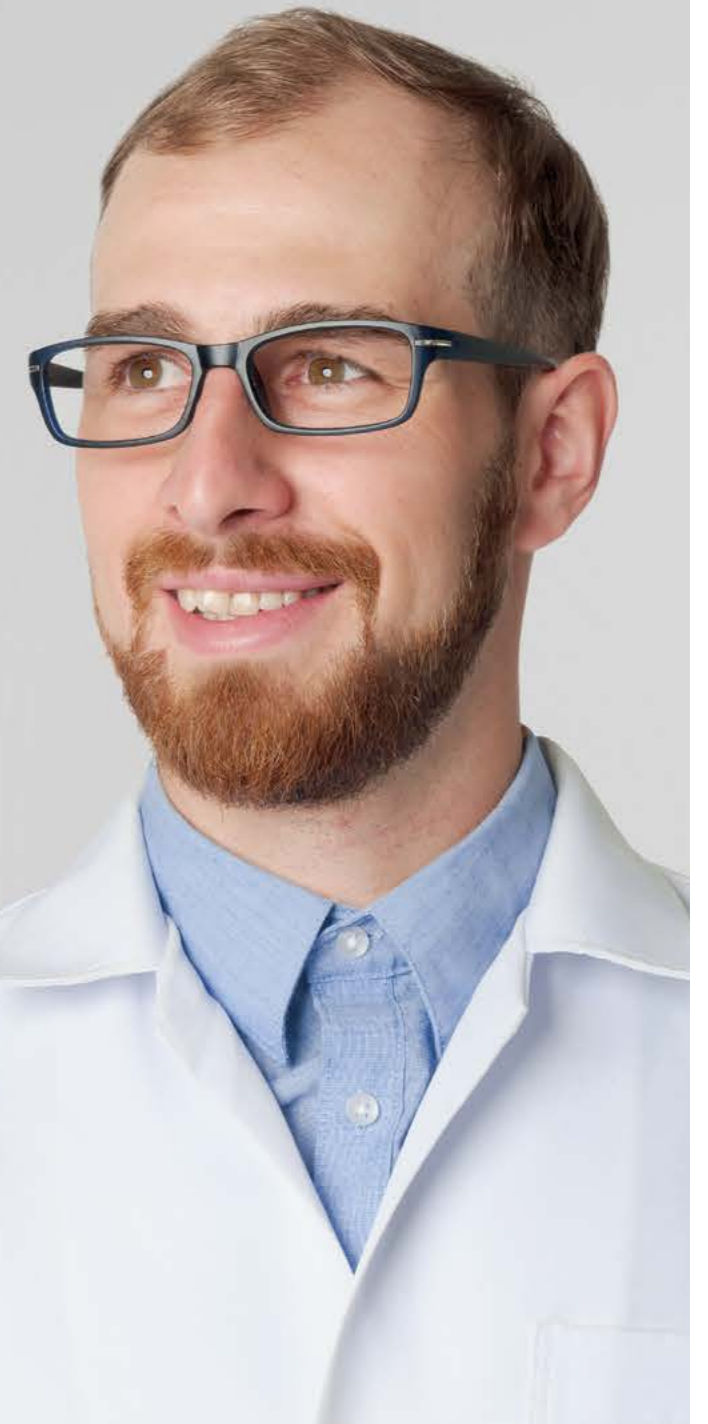
*Our new plant in North Carolina, USA will double Premix's manufacturing capacity once completed.*



### 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.



ISCC PLUS certification is a voluntary scheme that applies to the bio-economy and circular economy for various industries, including plastics. The ISCC PLUS certification applies to circulated materials, bioplastics, and circulated bioplastics. Premix's first products use circulated fossil-based raw materials, but we're actively also testing biobased plastic raw materials.



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!

Read more about us  
and contact our team:

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