

Plastic Sorting Made Easy with trinamiX Mobile Near-Infrared (NIR) Spectroscopy Solutions



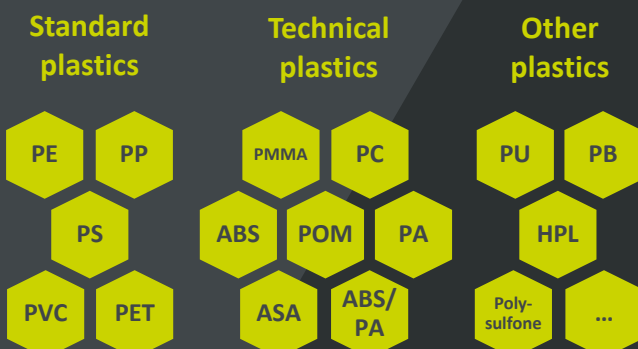
Improving sorting as well as recycling, accuracy, and quality assurance

- ✓ **Assurance**
Reliable identification of plastics ensures proper sorting of plastic waste streams.
- ✓ **Quality**
Enhanced purity of plastic waste streams leads to higher quality of recyclates.
- ✓ **Profit**
High-quality recyclates achieve higher prices.

Powerful combination of mobile hardware, data analysis, and material expertise

- ✓ **Mobile**
Plastics can now be easily distinguished on the spot with the simple use of a portable handheld device.
- ✓ **Fast**
Plastics are identified within seconds.
- ✓ **Ready-to-use**
Immediate use without the need of time-consuming set-up.

Reliable identification of a variety of plastics



Watch how it works



trinamiX solution for
mobile plastic sorting:
<https://bit.ly/31U56nF>

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trinamiX makes the Invisible Visible

Improving on-the-spot decision-making through NIR Spectroscopy

1

Point trinamiX NIR spectrometer to object and press the green button. Near-Infrared light is sent to and reflected by the measured material.



3

Within seconds, a result is displayed in the app, and additional information becomes available for further evaluation in the customer portal.



2

Each material has a unique spectrum of wavelengths that is reflected. Chemometric models analyze the spectrum of the reflection and clearly identify the material.

About the NIR Spectroscopy Solutions

- Battery capacity: 6,000 measurements
- Slightly larger than a smartphone
- Wireless connection to smartphone and customer portal
- Data stored in MS Azure cloud provided by BASF SE
- Data transfer end-to-end encrypted (SSL and AES 256)
- Android app and customer portal
- In-house developed chemometric models

About trinamiX

- At trinamiX, we make advanced NIR technology accessible to people outside a laboratory for a variety of applications across industries, including agriculture, pharma and chemistry, food and beverage.
- Our entire production is based in Germany. We are committed to provide highest quality and attention to detail.
- Data protection is the utmost priority for us. Our highly-protected data management ensures our customers a trustworthy data solution.

Watch how it works



**Molecular sensing
by trinamiX:**

<https://bit.ly/2PlquX2>