

Identify Mono- and Multi-Material films for improved recyclability

At the push of a button with with trinamiX's handheld solution



Powerful combination of mobile hardware, data analysis and material expertise

✔ **Mobile**

Mono- and Multi-Material films can be easily distinguished on the spot.

✔ **Fast**

Gain instant insights into the film material.

✔ **Easy**

User-friendly handling.

Reliable identification of a variety of Mono- and Multi-Material films based on the following materials and their blends:

Mono-Material films:



Multi-Material films:



In case of PE/PA films, the PA content will be shown in %.

Evaluate the recyclability of the film and select the best recycling method.

✔ **Improved recyclability**

Assess the recyclability of the film and determine which recycling method to utilize.

✔ **Assurance**

Improve your quality management for material inspections.

trinamiX Mobile NIR Spectroscopy Solution



trinamiX PAL One mobile
NIR spectrometer

Customer
Portal

Smartphone
App

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.

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.



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

About trinamiX Mobile NIR Spectroscopy Solution

- Battery capacity: up to 6,000 measurements
- Slightly larger than a smartphone
- Wireless connection to smart device via *Bluetooth®* and customer portal via internet
- Data stored in MS Azure cloud provided by BASF SE
- Data transfer end-to-end encrypted (SSL and AES 256)
- Android, iOS, Windows app
- Customer portal for more insights
- 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, circular economy, chemistry, and food.
- ✓ 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
trinamiX solution for
mobile plastic sorting

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