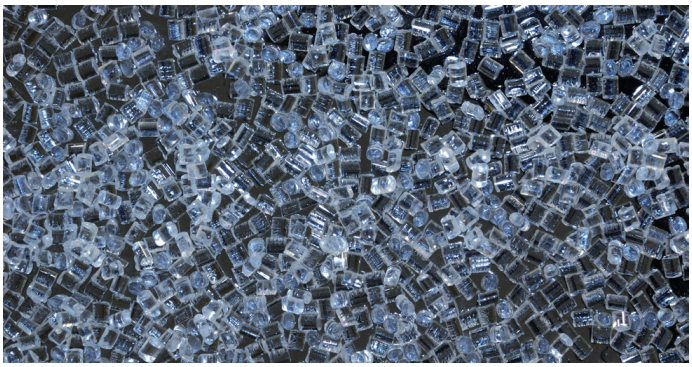
microPHAZIR PC

Handheld plastics analyser



Identification of plastics and polymers is a critical step in the proper sorting and recycling of post-industrial and post-consumer materials. Thermo Scientific microPHAZIR PC is a cost-effective polymer identification analyser that streamlines inspection without compromising accuracy.

Plastic materials are used to manufacture many types of products from toys to furniture. Each year tons of plastics are discarded and often end up consuming an enormous amount of space in landfills across the country. Increasingly, more of this material is being recovered, recycled, and reused by consumers and recycling facilities.

Recycling rates have been a challenging due to the complexity of sorting and processing. Many states and municipalities offer programs to encourage consumers to recycle plastic containing products. The resulting mixed plastics are sent to large sorting facilities where they are processed. In order to achieve a high quality of reprocessed material, plastics need to be accurately identified and properly sorted. The Thermo Scientific microPHAZIR PC analyser is a powerful tool to enable rapid screening and identification of plastics types. The 2.75lb (1.25kg) handheld NIR analyser is completely self-contained and can perform accurate on-site analysis in seconds.

Key benefits include:

- Save time
  Rapid and accurate results displayed within seconds

- Easy to use
  Designed for non-expert users, the analyser is fully automated and requires no user input

- Portable
  Small and lightweight for fast identification of materials in the field or at the sorting facility

- Safe
  No sample preparation or burn test necessary, NIR is fast, safe and nondestructive

NitonUK

Product Specification

Identification of common plastic types, including:
PLA, PET, PP, PS, ABS, PI, PSO, PE, PPS, TPV, PTT,PC, PMP, PBT, PA (nylon), PETG, SAN, EVA, PB, PPO, CA, PMMA, PUR, PI, PVC, PLA, Ionomer, Styrenic terpolymer, Elastomer, POM, Nylon+ABS

Spectral Range	1600-2400 nm (6250-4100 cm-1)
Measurement Time	< 3 seconds
Sampling Mode	Diffuse reflectance
Weight	2.75 lbs (1.25 kg)
Enclosure	High-strength dust proof plastic housing
Source	Tungsten light bulb, safe for operators and sample integrity
Data Storage	All data is stored on internal memory and can be downloaded to PC
Computer Interface	USB cable included
Operating Temperature Range	5° to 50°C (non-condensing)
Power	Batteries: Two Quick Change Lithium Ion batteries (4.5 hour run-time) AC Battery charger included

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