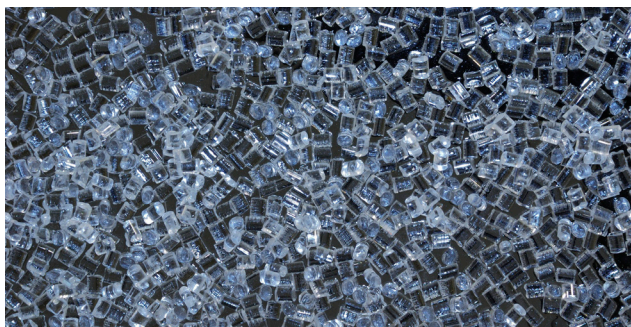


## Thermo Scientific microPHAZIR PC

Handheld Plastics Analyzer

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 analyzer 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 in the US have been a challenge 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 analyzer is a powerful tool to enable rapid screening and identification of plastics types. The 2.75 lb (1.25 kg) handheld NIR analyzer 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 analyzer 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 non-destructive.

### 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

### Thermo Scientific microPHAZIR PC Specifications

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

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