



# NIRS DS2500 Polymer Analyzer

The easy way to measure key quality parameters in polymers

## HIGHLIGHTS

- Robust and compact instrument
- Chemical and physical parameters
- Pre-calibrated for PE, PP, PET, PA 6

# Measure chemical and physical parameters in less than a minute

**Melt Flow Index (MFI), viscosity, density, or moisture** – with the NIRS DS2500 Polymer Analyzer you can measure key quality parameters of polymers in less than a minute, with no sample preparation at all. The DS2500 Polymer Analyzer package contains all you need to get started.

## Start immediately thanks to pre-calibrations

NIRS (Near-Infrared Spectroscopy) is a secondary method and requires product-specific calibration models. The DS2500 Polymer Analyzer contains pre-calibrations based on real product spectra for the most common solid polymers. Unpack, install, start measuring – that's it – no prior model development needed.

## Flexible choice of workplace

Due to its robust and compact design, the DS2500 can be used in the laboratory or on the production floor alike. This simplifies your sample logistics and allows you to measure wherever you want.

## Security against unwanted changes

Only authorized users obtain access to the manager mode in our Vision Air software. This mode is used to manage instrument settings, create or change SOPs, and review data. Routine users do not have access and can only start a measurement.





### Hardly any training required

Our intuitive Vision Air software makes the DS2500 Polymer Analyzer easy to use. Shift workers will find the routine user mode so simple that hardly any time for familiarization is needed: Two clicks from selecting the method and starting the measurement to getting a clear pass/fail result is all it takes.

### Pre-calibrations and parameter ranges for the NIRS DS2500 Polymer Analyzer

Polymer	Part No.	Parameters	Range
PET	6.6072.310	Intrinsic viscosity	0.55–0.88 dL/g
		Diethylene glycol	1.47–2.25%
		Isophthalic acid	1.87–4.47%
		Acid Number	1.1–6.2 mg KOH/g
Polyamide (PA 6)	6.6072.311	Relative viscosity	2.411–3.601 dL/g
		Carboxyl end groups	29.5–130.4 mEq/g
		Amine end groups	9.5–55.2 mEq/g
PE	6.6072.308	Relative viscosity	1.0–3.5 dL/g
		Density	0.860–0.906 g/cm <sup>3</sup>
PP	6.6072.309	Melt Flow Rate	1.4–64.0 g/10 min.

## ORDERING INFORMATION

<b>2.922.1000</b>	<b>DS2500 Polymer Analyzer</b>
	<b>Comprised of:</b>
2.922.0010	DS2500 Solid Analyzer
6.7425.100	DS2500 Iris
6.7402.050	DS2500 Large Sample Cup
6.7490.480	Lid for Large Sample Cup black
6.6072.208	Vision Air Complete
See below	Pre-calibration (choose 1)
	<b>Pre-calibrations for Polymer Analyzer</b>
6.6702.308	Pre-calibration for PE (Polyethylene)
6.6702.309	Pre-calibration for PP (Polypropylene)
6.6702.310	Pre-calibration for PET (Polyethylene Terephthalate)
6.6702.311	Pre-calibration for Polyamide (PA 6)
	<b>Requires certified standards</b>
6.4750.000	NIRS reflection standard, set of 2
	<b>Optional accessories</b>
6.7402.030	NIRS mini sample cups, 10 pcs, incl. 100 disposable backs
6.7402.020	NIRS disposable backs for 6.7402.030, 100 pcs
6.7490.440	DS2500 Multisampler Cup, 15 mm (fits 9 vials of 15 mm diameter)
6.7490.450	DS2500 Multisampler Cup, 19 mm (fits 8 vials of 19 mm diameter)
6.7490.460	DS2500 Multisampler Cup, 22 mm (fits 9 vials of 15 mm diameter)
6.7490.470	DS2500 Multisampler Cup, 28 mm (fits 8 vials of 19 mm diameter)
6.7402.110	NIRS disposable glass vials 15 mm, 123 pcs
6.7402.120	NIRS disposable glass vials 15 mm, 225 pcs
6.7402.130	NIRS disposable glass vials 15 mm, 172 pcs
6.7402.140	NIRS disposable glass vials 15 mm, 216 pcs
6.7402.200	NIRS vial cap 15 mm, 123 pcs
6.7402.210	NIRS vial cap 19 mm, 225 pcs
6.7402.220	NIRS vial cap 22 mm, 172 pcs
6.7402.230	NIRS vial cap 28 mm, 216 pcs