Competence creates Confidence.

Model no. 1398

CARBON BLACK CONTENT TESTER

ISO 6964
ASTM D 1603
DIN 53 585
DIN VDE 0472 part 702.

Standards stipulate the determination of the carbon black content of polyolefins and/or also the residue on ignition of carbon blacks. The method is based on the pyrolysis of the plastic in an inert gas stream (nitrogen), i.e. the remaining quantity is burned again at the same temperature with air supply and the carbon black content is determined by differential weighing.

Pyrolysis of the plastic in the inert gas stream

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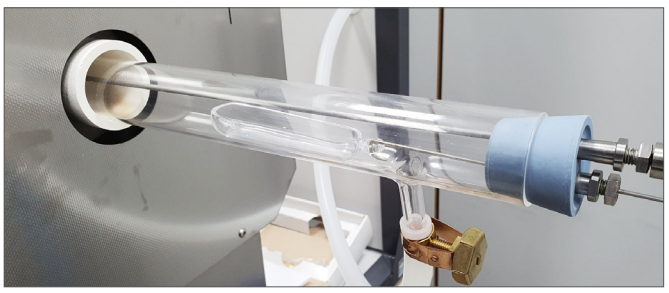
Edition 03/2026

Always ready for testing. Compact design

- The tester consists of a tube furnace with prefabricated and replica glassware and silicone hoses through which the nitrogen and compressed air are supplied and the discharged combustion gases are conducted. The prefabricated glassware is used for cleaning and subsequent drying of the nitrogen, provided it contains an oxygen content greater than 0.002. The required flow rate can be manually adjusted using a flow meter.
- A digital temperature controller regulates the temperature of the tube furnace. It is adjusted by hand. The furnace is equipped with a safety shut-off that is activated at a temperature of 1100°C.
- A LED on the front panel indicates the shut-off. The temperature of the samples in the furnace is measured with a nickel-chromium-nickel temperature sensor and displayed on a digital thermometer.
- All components of the test device are securely mounted on a frame. The delivery contents also include two shuttles each made of quartz glass and porcelain, crucible tongs for loading the furnace and a desiccator.
- The equipment is supplied without chemicals (depending on test standard) and without a pressure regulator for the nitrogen bottle to be connected.



Standard features

- Pipe furnace with a max. furnace temperature of up to 1,300 °C
- program copy function for easy adaptation
- 5 programs with 4 segments each can be saved
- Handheld measuring device with temperature sensor
- Flow meter for 1-13 Nl/h according to ISO
- Silica glass tube for placing the shuttles in the furnace
- Two porcelain glass shuttles
- Crucible tongs
- Input of temperatures and times in increments of 1° or 1 min.
- Furnace start time can be set via a real-time clock
- Temperature measuring accuracy °C ± 1.0 °C
- Glassware for purification of nitrogen and gases
- Two quartz glass shuttles
- Desiccator
- CE conformity

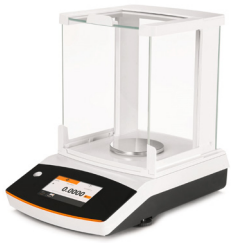
Options

- Flow meter for 5-95 Nl/h according to ASTM
- Analytical balance

Version CARBON BLACK CONTENT TESTER

		V1398-0005
Power requirement of tubular furnace	kW	1.9
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity	%	Max. 70 Non-condensing
Width x Depth x Height	mm	760 x 650 x 1,020
Weight	kg	Approx. 54
Voltage data		230 V 50/60 Hz Special voltages on request

Accessories BULK DENSITY TESTER

Product	Description	Model no.
	Analytical balance	H3000