

SKZ1059B Carbon Black Content Tester



It applies to polyethylene, polypropylene and polyisobutylene plastics in the determination of the content of carbon.

Standard :

ISO 6964: Determination for the carbon black content of polyethylene pipes and fittings by calcination and pyrolysis

ASTM D1603: Test Method for Carbon Black Content in Olefin Plastics

IEC 60811-4-1: Common test methods for insulating and sheathing materials of electric and optical cables—Part 41:Methods specific to polyethylene and polypropylene compounds—Resistance to environmental stress cracking—Measurement of the melt flow index—Carbon black

Features:

1. During the test process, the samples were taken and released with a simple guide rail. The guide rails were used to pull out the samples directly. No need to open the sealing valve, without using other sampling tools to reduce errors and improve measurement accuracy.
2. Sample combustion boat guide rail support, located in the center of the heating furnace core area to ensure uniform heat around the sample, the test accuracy is higher. Avoid the traditional combustion boat placed directly on the test tube, the drawbacks of uneven heating.
3. The injector for the sample combustion boat is marked, scaled, and bespoke to ensure that the same requirements are placed on the sample locations in a repetitive test, just as it is for each insertion into the furnace. The traditional carbon black content tester, to make their own mark, observe and then adjusted, leading to low efficiency, poor repeatability.
4. Avoid open-door furnace defects, using double-wire wound heating, heating more uniform, and anti-aging.

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5. During the test, the sample can be cooled internally and equipped with independent fan cooling to speed up the cooling and improve the cooling efficiency. Even if the sample temperature reaches 1000 ° C, the external enclosure temperature is always <50 ° C.
6. Atmosphere control, program switching, but also manually through the touch screen to switch to make the operation more intelligent and more convenient.
7. 7-inch high-definition capacitive touch screen, Real-time display of temperature curve. 50 section temperature can be set, A key calculation of carbon black content.
8. Exhaust end can be equipped with automatic cleaning bottle, cleaning bottle users can replace, but also through the instrument window to observe the gas reaction.
9. Allow the selection of a suitable combustion crucible for testing multiple samples.

Technical Parameters:

Display	7-inch capacitive touch screen display
Tube size	Φ45 × 450mm
Heating element	high temperature nickel-chromium wire
Heating area length	300mm
Temperature area length	200mm
Operating temperature	≤ 1100 °C
The maximum temperature	1200 °C
Temperature control mode	50 programmable control
Temperature accuracy	± 0.5 °C
Sensitivity	0.1°C
Heating rate	1°C ~ 50°C / min
Power	≤ 1KW
Working voltage	AC220V / 50HZ / 60HZ
Atmosphere	two paths
Atmosphere switch	fully automatic

Packing list:

Name	Model	Quantity
Host machine	SKZ1059B	1 set
Furnace		1 set
Burning boat		10
Power Cord		1
10A fuse		5
Sensor		1
Forceps		1
Hose	1 m, 3 m	Each one
stopper and glass tube		2 sets

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