

Product Name :
Carbon Black Content Apparatus

Product Code :
NAAY-M68



Description :

Carbon Black Content Apparatus - Carbon Black is one of the most important filler in plastics materials. It not only acts as pigment but also as an UV absorber. However the level of addition of this filler influences the plastics behaviour a lot and hence requires to be well controlled. This is major reason of determining the percentage of it in given polymer mass. This is particularly more effective in polyolefins and polythylenes in particular. The method consists of pyrolysing the sample in an inert atmosphere and considering the gravimetric difference. Compact furnace with double thermal insulation for the best operator ease. Alongwith are best quality galsswares for longer durability but with easy availability. The thermal glasswares are fine quality imported high temperature quartz glass. The heaters are custom made for better reliability and longer life. They are made from best quality alloys to avoid premature fusions. The temperature is controlled by electronic solidstate controller and built in rate-of-rise device to avoid practically any over scoots and better temperature stability.

Standard accessories :

De-oxygenating wash bottle with Trap, De-hydrolysing tube, quartz heating chamber (apart from built in silica heater tube); quartz combustion boat. Two pyrolisite collecting wash bottle with trap and stand with fitting for above items, Nitrogen Gas Cylinder of 6 cu.mt. capacity with opening key, Gas flow controller and gas tubing, Boat puller/pusher, tongs, Gloves, a heat resistant boat lander, Borosil dessicator of 6" diameter, all requisite chemicals, relevant glasswares for chemical preparation.

Power Requirement: 230V AC, 50Hz, Single Phase

Heating Load: 3 KW

Temp. Range: Ambient to 10000C

Temp. Control: PID Type 3 digit indicating controller with overshoot protection control

Control Accuracy: 50C of set temperature

Furnace: With Dual Insulation – Outer surface Temp. will not exceed 500C

Furnace Size: Effective Size 12" Length x 30mm dia

Heater: Electrical Silica Tubular Type
Pyrolysing Chamber: Heat resistant quartz glass tubular
Pretreatment: De-oxygenating unit and de-humidifying unit
Gas Flow Control: Through a single stage regulator and with flow meter
Sample Holder: Quartz Glass Boat of 12mm dia and 125mm long
Post Treatment: Double Dissolution Unit
Power: 230V, AC Single Phase 50 Hz
Weighing Capacity: Electronic Type of 200gm capacity Accuracy 0.1 mg.

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