

KES

Analysis of Carbon Black in Olefin Plastics

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1. Scope of Application

This standard shall specify a quantitative analysis method for content of carbon black in olefin plastics.

2. Apparatus

- (1) Electric furnace : Constructed as in Figure 1 and 20cm of length
- (2) Tube : Inner diameter 2.9 cm
- (3) Lid : Use neoprene rubber, which can stop a tube
- (4) Ten-mm glass tube
- (5) Combustion boat
- (6) Thermostat: It shall be adjustable between 300~700℃.
- (7) Flow meter
- (8) Dry tube
- (9) Glass wool
- (10) Desiccator
- (11) Bunsen burner
- (12) Chemical balance

3. Reagent and Material

- (1) Carbon dioxide
- (2) Calcium Chloride (CaCl_2)
- (3) Nitrogen
- (4) Tri-chloro-ethylene

4. Operation

- (1) Construct the apparatus as in Figure 1.