Product name:	Product code:
Carbon Black Content Tester for Polyethylene Tanks	CMI-IND-0171

Description

Tube furnace unit that determines the carbon black content in black or UV-stabilised polyethylene by pyrolysis and weighing. Used by tank makers to confirm UV protection level.

Technical specification

- Nitrogen regulator
- Desiccator

A weighed polymer sample is heated in a nitrogen stream at 550 deg C so the polymer decomposes while the black remains, and the residue is weighed. The result, typically 2.0 to 2.5 percent, confirms that the compound gives adequate UV protection for outdoor tanks. The furnace has stable temperature with programmed ramp.

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Features

- Tube furnace to 800 deg C
- Nitrogen flow meter
- PID controller with ramp and soak
- Quartz tube and porcelain boats
- Desiccator included

Technical Specifications

Temperature Range	Ambient to 800 deg C
Accuracy	+/- 5 deg C
Tube	Quartz, 30 mm bore
Sample Mass	1 - 2 g
Standards	ASTM D1603, ISO 6964, IS 2530
Power Supply	230 V AC, 50 Hz

Standard Accessories

- Porcelain boats (10)